

B stars

UF

GS

helium stars

celestial bodies

# B

superfortress aircraft

attack aircraft

. bomber aircraft

XB-70 aircraft

. bomber aircraft

attack aircraft

BAC TSR 2 aircraft

USE TSR-2 aircraft

. stars	, out of		B–50 aircraft		B–70 aircraft
early	stars		Boeing aircraft		jet aircraft
hot :			. B–50 aircraft		. B–70 aircraft
B			monoplanes		monoplanes
S			. B–50 aircraft		. B–70 aircraft
	igma Orionis	DT	aircraft		North American aircraft
		K1 ∞	aliciali		. B–70 aircraft
	-	B-52 air	craft		
_	iaio objecto	UF	Stratofortress aircraft		research vehicles
limb brigi		GS	attack aircraft		research aircraft
limb dark	_	00	. bomber aircraft		B–70 aircraft
peculiar			B–52 aircraft		supersonic aircraft
	mposition		Boeing aircraft	DT	. B–70 aircraft
Wolf–Ra	et stars		. B-52 aircraft	KI∝	aircraft
B-1 aircraft			jet aircraft	D 102	aircraft
GS attack air	coraft		. B–52 aircraft	B–103 a	
				USE	Buccaneer aircraft
. bomber			monoplanes	B A IA	devices
B–1 a		DT	. B-52 aircraft	USE	bulk acoustic wave devices
jet aircra		KI∞	aircraft	USE	bulk acoustic wave devices
. B–1 air			Pegasus air–launched booster	babbitt	metal
	nerican aircraft		turbofan engines	DEF	Any of the white alloys composed
. B–1 air		5 E7 air	aualt.		
RT ∞ aircraft		<b>3–57 air</b> UF			y of tin or lead and of lesser amounts of
bombing	equipment	UF	Canberra bomber		ny, copper, and other metals, and used for
bombs (d	ordnance)		RB-57 aircraft	bearing	
combat		GS	attack aircraft	GS	alloys
military a	ircraft		. bomber aircraft		. antimony alloys
multiengi	ne vehicles		B-57 aircraft		babbitt metal
warfare			jet aircraft		. copper alloys
winged v	ehicles		. B-57 aircraft		babbitt metal
			Martin aircraft		. tin alloys
B-2 aircraft			. B-57 aircraft		babbitt metal
(added Septem	ber 1992)		monoplanes	RT	bearing alloys
UF stealth b	omber		. B-57 aircraft		
GS attack air	craft	$RT \infty$	aircraft	baboon	
. bomber	aircraft		Canberra aircraft	GS	animals
B–2 a					. vertebrates
jet aircra	t F	B–58 air	craft		mammals
. B-2 air	craft	UF	Hustler aircraft		primates
RT ∞ aircraft		GS	attack aircraft		baboons
military a	ircraft		. bomber aircraft		
X-36 air			B-58 aircraft		11 aircraft
			General Dynamics aircraft	GS	BAC aircraft
B-26 aircraft			. B-58 aircraft		. BAC 111 aircraft
UF Invader a	nircraft		jet aircraft		jet aircraft
GS attack air	craft		. B-58 aircraft		. turbofan aircraft
. bomber	aircraft		monoplanes		BAC 111 aircraft
B-26	aircraft		B-58 aircraft		monoplanes
Martin ai	craft		supersonic aircraft		. BAC 111 aircraft
. B-26 a	ircraft		. B-58 aircraft		passenger aircraft
monopla	nes		tailless aircraft		. BAC 111 aircraft
B-26 a			. B-58 aircraft		transport aircraft
RT∞ aircraft		RT∞	aircraft		BAC 111 aircraft
TTT 00 and an		00	an oran	RT∝	aircraft
B-47 aircraft	F	B-66 air	craft		
UF <i>RB</i> –47 a	ircraft	UF	Destroyer aircraft	BAC ai	rcraft
Stratojet			RB-66 aircraft	UF	British Aircraft Corp aircraft
XB–47 a		GS	attack aircraft	GS	BAC aircraft
GS attack air			. bomber aircraft		. BAC 111 aircraft
. bomber			B-66 aircraft		. Canberra aircraft
<b>B–47</b>			jet aircraft		. H–126 aircraft
Boeing a			. B–66 aircraft		. jet provost aircraft
. B–47 a			McDonnell Douglas aircraft		. Scimitar aircraft
jet aircra			. Douglas aircraft		. TSR–2 aircraft
jet alicia . <b>B–47 a</b>			B–66 aircraft		. Valiant aircraft
					. VC–10 aircraft
monoplai . <b>B–47 a</b>			monoplanes . B-66 aircraft		. Viscount aircraft
RT∞ aircraft	iciait	DT.	aircraft	DT -	aircraft
n i oo aliciall		LY L CO	ancian	IN L ≪	J GII OI GIL

B-70 aircraft

UF Valkyrie aircraft

B-50 aircraft

UF RB-50 aircraft

### **Bacillus**

SN (RESTRICTED TO MEMBERS OF THE GENUS BACILLUS; DOES NOT INCLUDE GENERAL MORPHOLOGICAL CLASSIFICATIONS)

GS microorganisms

. bacteria

. . Bacillus

. . . stearothermophilus

### back injuries

GS injuries

. back injuries

RT whiplash injuries

## backfire

RT combustion deflagration explosions fires

flame deflectors flame propagation

flashback

### backfire antennas

DEF Antennas consisting of radiating feeds, reflector elements, and reflecting surfaces such that the antennas function as open resonators, with radiation from the open end of the resonator.

GS antennas

### . backfire antennas

RT antenna radiation patterns

dipole antennas
endfire arrays
microwave antennas
radio antennas

### background noise

DEF In recording and reproducing, the total system noise independent of whether or not a signal is present. The signal is not to be included as part of the noise. In receivers, the noise in the absence of signal modulation on the carrier.

RT channel noise
cosmic noise
elastic waves
electromagnetic noise
ionospheric noise

noise

noise (sound)

noise measurement noise spectra noise threshold

∞ radiation
 random noise

∞ rays

signal to noise ratios squelch circuits

# background radiation

RT big bang cosmology continuous radiation corpuscular radiation

Cosmic Background Explorer satellite

cosmic noise electromagnetic noise extraterrestrial radiation high altitude tests

ionospheric noise ∞ radiation relic radiation sky radiation

backings

USE backups

# backlobes

DEF Radiation lobes whose axes make angles of approximately 180 degrees with respect

to the axes of the major lobes of the antennas. By extension radiation lobes in the half-space opposed to the direction of peak activity.

RT antenna design

antenna radiation patterns directional antennas

 $\infty$  lobes

### backscattering

DEF Scattering of radiation in a direction having a component opposite its original direction of propagation.

GS scattering

### . backscattering

RT differential absorption lidar forward scattering laser plasma interactions microwave signatures nuclear scattering scatter propagation

backshores

USE beaches

#### backups

DEF Items kept available to replace items which fail to perform satisfactorily. Items under development intended to perform the same general functions another item also under development performs. Used for backings.

UF backings

RT redundant components

reserves welding

## backward differencing

DEF A method of solving a parabolic problem for approximating a time derivative in terms of a previous time step.

RT differential equations numerical stability problem solving

# backward facing steps

DEF A step structure which faces an oncoming flow. Used for rearward facing steps.

UF rearward facing steps
RT boundary layer flow
flow geometry
fluid boundaries
forward facing steps
reattached flow
recirculative fluid flow
stairsteps

steps

## backward wave tubes

GS electron tubes

. vacuum tubes

. . microwave tubes

. . . traveling wave tubes

. . . . backward wave tubes

. . . . . helitrons
microwave equipment
. microwave tubes
. traveling wave tubes

. . . backward wave tubes

RT beam currents
electron transfer
microwave oscillators

### backward waves

DEF In traveling wave tubes, waves whose group velocity is opposite to the direction of electron-stream motion.

RT elastic waves

electromagnetic radiation

solitary waves transmission lines traveling wave tubes traveling waves

### backwash

SN (EXCLUDES PROCESSES OF

BACKWASHING UF sidewash

RT boundary la

boundary layer stability downwash slipstreams Strouhal number turbulence wakes

### bacteria

GS microorganisms

# . bacteria

. . actinomycetes

. . archaebacteria

. . Azotobacter

. . Bacillus

. . . stearothermophilus

. . Clostridium

. . . Clostridium botulinum

. . Escherichia

. . hydrogenomonas

. . Klebsiella . . nitrobacter

. . pseudomonas

. . pseudomonas . . salmonella

. . sarcina

RT

. . serratia

. . staphylococcus

. . streptococcus

. . streptomycetes

aerobes
anaerobes
bacteriology
blight
colonies
eukaryotes
gnotobiotics
invertebrates
panspermia
pathogens
prokaryotes

saprophytes

waste treatment

# bacterial diseases

SN (EXCLUDES PLANT DISEASES)

GS diseases

. infectious diseases

. . bacterial diseases

. . . cholera . . . diphtheria

. . . keratitis

... syphilis

. . . typhoid

. . . typhus RT Clostridium conjunctivitis

> dermatitis encephalitis meningitis nephritis pneumonia

# bactericides

DEF Agents that destroy microorganisms. Also known as germicides. Used for germicides.

UF germicides

RT antiinfectives and antibacterials

antiseptics

chemical sterilization

# bacteriology

ethylene oxide . gas bags . baking fumigation casting baggage sterilization degassing  $\infty$  containers packages drying bacteriology heat treatment **Bahamas** microbiology GS ovens landforms . bacteriology GS roasting . islands archaebacteria sterilization . . West Indies bacteria . . . Bahamas biochemistry balance nations ∞ biology GS balance Clostridium botulinum Bahamas . aerodynamic balance RT Caribbean region colonies . heat balance endotoxins . material balance Bahrain gnotobiotics . . water balance landforms GS vaccines RT compensators islands ∞ equilibrium . . Bahrain bacteriophages ∞ mass balance nations GS microorganisms mass distribution . Bahrain . viruses weight indicators . . bacteriophages bailout RT interferon balance equations air drop operations USE equations ejection badlands ejection injuries Intricately stream-dissected topography, balanced amplifiers ejection seats characterized by a very fine drainage network with USE push-pull amplifiers ejection training high drainage densities (77 to 747 miles per escape (abandonment) square mile) and short steep slopes with narrow balancing escape systems interflues. Badlands develop on the surface with eccentricity flying ejection seats little or no vegetative cover, overlying  $\infty$  equilibrium jettison systems unconsolidated or poorly cemented clays or silts, flywheels jettisoning sometimes with soluble minerals such as gypsum man machine systems parachute descent or halite. They may also be induced in humid stabilization parafoils areas by removal of the vegetative cover through overgrazing, or by air pollution from sulfide Baldwin-Lomax turbulence model bainite smelting. The term was first applied to an area in DEF Metastable microstructure (added May 1997) western South Dakota which was called models microstructures resulting from the transformation "mauvaises terres" by the early French fur traders. . mathematical models of austenite at termperatures between those which GS land . . turbulence models produce pearlite and martensite . badlands . . . Baldwin-Lomax turbulence bainitic steel RT barren land model iron alloys topography computational fluid dynamics microstructure eddy viscosity steels baffles flow equations DEF Plates that regulate the flow of a fluid, bainitic steel turbulent boundary layer e.g., a heat exchanger, boiler flue, or automotive alloys GS turbulent flow muffler. . iron alloys RT attenuators . . steels ball bearings  $\infty$  barriers . . bainitic steel GS bearings blast deflectors RT bainite . antifriction bearings conical flow . . ball bearings damping Baja California balls Lower California (Mexico) deflectors USE elastohydrodynamics ∞ diffusers needle bearings baiadas diverters roller bearings USE fans (landforms) dividers thrust bearings ducts Bakelite (trademark) flame deflectors ball lightning RT ceramics liquid sloshing A relatively rare form of lightning, louvers consisting of a reddish, luminous ball, of the order thermosetting resins mixers of one foot in diameter, which may move rapidly mufflers bakeout along solid objects or remain floating in midair. panels USF degassing Hissing noises emanate from such balls, and they reflectors sometimes explode noisily but may also appear shieldina Baker-Nunn camera noiselessly. suppressors GS optical equipment GS electric current . cameras . electric discharges baggage . . Baker-Nunn camera . . lightning GS cargo photographic equipment . . ball lightning . baggage . cameras RT atmospheric electricity RT air cargo . . Baker-Nunn camera astronomical photography  $\infty \ \text{ballast}$ ground handling Schmidt cameras (USE OF A MORE SPECIFIC TERM IS SN RECOMMENDED—CONSULT THE TERMS bags baking LISTED BELOW) GS ballast (mass)

(EXCLUDES FOOD PROCESSING)

GS

heating

ballasts (impedances)

. air bag restraint devices

### ballast (mass)

RT aerodynamic stability

ballast buoyancy

counterbalances

floating

floats

hydrodynamics loads (forces) mass distribution

stability static loads

## ballasts (impedances)

DEF Devices that by means of inductance, capacatance, or resistance, singly or in combination, limit the lamp current of fluorescent or mercury lamps to the required value for proper operation, and where necessary provide the required starting voltage and current amd. in ballasts for rapid–start lamps provide low–voltage cathode heating.

RT ∞ ballast

capacitors

inductors

luminaires resistors

transformers

#### ballistic cameras

DEF Ground-based cameras using multiple exposures on the same plate to record the trajectories of rockets.

GS optical equipment

. cameras

### . . ballistic cameras

photographic equipment

. cameras

# . . ballistic cameras

RT ground support equipment high speed cameras optical tracking rangefinding

stroboscopes

trajectory measurement

# ballistic missile decoys

GS countermeasures

. ballistic missile decoys

decoys

# . ballistic missile decoys

RT missile defense reentry decoys

## **Ballistic Missile Early Warning System**

UF BMEWS

GS warning systems

early warning systems

### . . Ballistic Missile Early Warning

# System

RT air defense

military technology radar tracking

 $\infty$  systems

# ballistic missile submarines

GS water vehicles

. ships

. . submarines

. . . ballistic missile submarines

. underwater vehicles

. . submarines

# . . ballistic missile submarines

RT fleet ballistic missiles

missile launchers

mobile missile launchers

navy

Poseidon missiles

sea launching

#### ballistic missiles

SN (GUIDED ONLY DURING INITIAL

POWERED PHASE)

DEF Missiles designed to operate primarily in accordance with the laws of ballistics.

GS missiles

## . ballistic missiles

. . field army ballistic missiles

. . intercontinental ballistic missiles

. . . Atlas ICBM

. . . . Atlas D ICBM

. . . . Atlas E ICBM

. . . . Atlas F ICBM

. . . Minuteman ICBM

. . . MX missile

. . . Titan ICBM

. . . . Titan 1 ICBM

. . . . Titan 2 ICBM

. . intermediate range ballistic missiles

. . . Blue Streak missile

. . . Jupiter missile

. . . polaris missiles

. . . . Polaris A1 missile

. . . . Polaris A2 missile

. . . . Polaris A3 missile

. . Pershing missile

. . Poseidon missiles

. . short range ballistic missiles

. . Skybolt missile

. . Subroc missile

. . V-2 missile

antimissile missiles

Safeguard system

surface to surface missiles

## ballistic ranges

GS ranges (facilities)

. test ranges

. . ballistic ranges

test facilities

. test ranges

. . ballistic ranges

downrange

hydroballistics missile ranges

# ballistic trajectories

DEF Trajectories followed by a body being acted upon only by gravitational forces and the resistance of the medium through which it passes.

S trajectories

## . ballistic trajectories

RT ascent trajectories

ballistics coasting flight descent trajectories downrange

free fall

impact prediction midcourse trajectories missile trajectories

parabolic flight

# $\infty$ ballistic vehicles

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS

UF nonlifting vehicles
RT reentry vehicles

reentry vehicles rocket vehicles test vehicles

∞ vehicles weapons

### ballistics

DEF The science that deals with the motion, behavior and effects of projectiles, especially bullets, aerial bombs, rockets or the like; the science or art of designing and hurling projectiles so as to achieve a desired performance.

### GS ballistics

. hydroballistics

. interior ballistics

. terminal ballistics aerodynamic drag

ballistic trajectories

gas guns

howitzers

hypervelocity guns

ordnance
projectiles
propellants
trajectories

trajectory analysis

trajectory measurement

# ballistocardiography

GS bioengineering

. biometrics

. . cardiography

. . . ballistocardiography

electrocardiography phonocardiography seismocardiography

### balloon flight

RT

RT

RT∞ flight

meteorological flight vertical flight

# balloon sounding

GS sounding

. balloon sounding

atmospheric sounding in situ measurement

radiosondes

superpressure balloons

# balloon-borne instruments

GS measuring instruments

. balloon-borne instruments

T airborne equipment

balloons

high altitude balloons

meteorological instruments

radiosondes telescopes

# ballooning modes

GS modes

. ballooning modes

RT magnetohydrodynamic stability plasma control plasma equilibrium

tearing modes (plasmas)

# balloons

GS expandable structures

inflatable structures

. . balloons

. . . high altitude balloons

. . . . jimsphere balloons

. . . . skyhook balloons

. . . . superpressure balloons . . . meteorological balloons

. . . . jimsphere balloons

. . . . ROBIN balloons

. . . microballoons . . . tethered balloons

RT ∞ aircraft airships ascent

balloon-borne instruments . . Banach space bandstop filters . . . Hilbert space Filters that block signals of a specific ballutes folding structures . . . Sobolev space frequency or a band of frequencies. gas bags harmonic analysis GS electromagnetic wave filters gondolas . electric filters metric space observation aircraft . . bandstop filters adaptive filters pilotless aircraft band ratioing bandpass filters stratoscope telescopes image processing GS bandwidth band ratioing balls crystal filters image enhancement ball bearings  $\infty$  filters multispectral band scanners falling spheres high pass filters remote sensing joints (junctions) low pass filters spectral bands spheres microwave filters valves optical filters band structure of solids tracking filters ballutes Brillouin zones waveguide filters brakes (for arresting motion) conduction bands aerodynamic brakes electron transitions bandwidth . . ballutes energy gaps (solid state) bandwidth GS drag devices forbidden bands . broadband . aerodynamic brakes heterojunction devices narrowband . . ballutes quantum wells . spectral line width expandable structures bandpass filters . inflatable structures ∞ bands bandgap . . ballutes USE energy gaps (solid state) bandstop filters air drop operations broadband amplifiers aircraft brakes channel capacity balloons bandpass filters dynamic characteristics drag chutes Wave filters having a single transmission frequencies band; neither of the cut-off frequencies being zero folding structures frequency ranges parachutes or infinity. impedance GS electromagnetic wave filters laser windows **Balmer series** . bandpass filters resonant frequencies GS spectra . . crystal filters speech baseband compression . radiation spectra . . tracking filters tracking filters electromagnetic spectra adaptive filters transfer functions . . . line spectra bandstop filters width . . . . Balmer series handwidth windows (intervals) absorption spectra electric filters atomic spectra ∞ filters bang-bang control electron transitions FIR filters USE off-on control emission spectra microwave filters H beta line optical filters Bangladesh H gamma line ultraviolet filters UF East Pakistan H lines vocoders GS nations hydrogen . Bangladesh balsa RT Asia (USE OF A MORE SPECIFIC TERM IS RT trees (plants) India RECOMMENDED—CONSULT THE TERMS wood Pakistan LISTED BELOW) absorption spectra Baltic sea banking flight anchors (fasteners) GS seas USE turning flight bandwidth . Baltic sea Bloch band Estonia Barany chair broadband Latvia DEF A kind of chair in which a person is clamps revolved to test his susceptibility to vertigo. It is clips Baltic Shield (Europe) named after the Swedish physician Robert Barany conduction bands rocks who lived from 1876 to 1936. edge dislocations . bedrock GS seats energy bands . . Baltic Shield (Europe) . Barany chair fasteners Earth resources rotating environments forbidden bands Europe tolerances (physiology) frequencies Precambrian period vertigo Herzberg bands Banach space holders **Barbados** GS algebra low frequencies . vector spaces narrowband GS landforms Banach space photoluminescent bands . islands . . West Indies . . . Hilbert space plastic deformation . . . Barbados . . . . Sobolev space ring structures Schumann-Runge bands nations analysis (mathematics) . function space sidebands . Barbados . Banach space Caribbean region spectral bands . . . Hilbert space straps

Swan bands

Vegard-Kaplan bands

barchans

dunes

USE

. . . . Sobolev space

. functional analysis

Bardeen approximation
USE barrier layers
electrical properties
surface properties

Bardeen–Cooper–Schrieffer theory
USE BCS theory

### **Barents Sea**

GS seas

. Barents Sea Arctic Ocean U.S.S.R.

### barite

RT

GS minerals

. barite

sulfur compounds

. sulfates

. . barite

### barium

GS chemical elements

. barium

. . barium isotopes metals

. barium

. . barium isotopes

# barium alloys

GS alloys

. barium alloys

## barium compounds

GS barium compounds

. barium ferrates

. barium fluorides

. barium oxides

. barium sulfides barium titanates

. barium zirconates

RT∞ alkaline earth compounds

 $\infty$  chemical compounds

 $\infty \ \ \text{metal compounds}$ 

# barium ferrates

GS barium compounds

. barium ferrates iron compounds

. ferrates

. . barium ferrates

# barium fluorides

GS barium compounds

. barium fluorides

halogen compounds . fluorine compounds

. . fluorides

. . . barium fluorides

. halides

. . fluorides

... barium fluorides

. . metal halides

. . . barium fluorides

### barium ion clouds

GS clouds (meteorology)

artificial clouds

. . chemical clouds

. . . barium ion clouds

RT Earth magnetosphere electric fields geomagnetism lines of force metal ions rocket sounding thermites

### barium isotopes

GS chemical elements

. alkaline earth metals

. . barium isotopes

. barium

. . barium isotopes

. nuclides

. . isotopes

... barium isotopes metals

metals

. alkaline earth metals

. . barium isotopes

. barium

. . barium isotopes

### barium oxides

GS barium compounds

. barium oxides

chalcogenides

. oxides

. . metal oxides

. . . alkaline earth oxides

. . . barium oxides

RT high temperature superconductors YBCO superconductors

#### barium sulfides

GS barium compounds

. barium sulfides

chalcogenides

. sulfides

. . inorganic sulfides

. . . barium sulfides

sulfur compounds

. sulfides

. . inorganic sulfides

. . . barium sulfides

# barium titanates

GS barium compounds

. barium titanates titanium compounds

titanatas

. titanates

. . barium titanates dielectrics

R1 dielectrics

ferroelectric materials

# barium zirconates

GS barium compounds

. barium zirconates zirconium compounds

. zirconates

. . barium zirconates

# Barkhausen effect

 $\text{RT} \, \infty \, \, \, \text{effects} \, \,$ 

electromagnetic measurement

electromagnetism oscillographs

# barley

GS farm crops

. grains (food)

. . barley

plants (botany) **barley** 

agriculture blight

botany crop growth

crop vigor ∞ crops

### baroclinic instability

DEF Hydrodynamic instability arising from the existence of a meridional temperature gradient (and hence a thermal wind) in an atmosphere in quasigeostrophic equilibrium and possessing static stability.

GS stability

baroclinic instability

RT atmospheric circulation atmospheric models baroclinic waves baroclinity

flow stability geostrophic wind

meteorology

zonal flow (meteorology)

### baroclinic waves

GS elastic waves

. capillary waves

. . gravity waves

. . . baroclinic waves surface waves

. capillary waves

. . gravity waves

. . . baroclinic waves

RT baroclinic instability

baroclinity barotropic flow

cyclones

density distribution geostrophic wind

radiation pressure

stratified flow wave amplification

∞ waves

zonal flow (meteorology)

### aroclinity

DEF The state of stratification in a fluid in which surfaces of constant pressure (isobaric) intersect surfaces of constant density (isoteric). The number, per unit area, of isobaric–isoteric solenoids intersecting a given surface is a measure of baroclinity.

RT baroclinic instability baroclinic waves barotropic flow

barotropism

stratified flow

# barometers

DEF Instruments used to measure atmospheric pressure.

GS measuring instruments

. meteorological instruments

. . barometers

. pressure gages

. . barometers

hypsometers

manometers pressure measurement

vacuum gages

barometric pressure
USE atmospheric pressure

# baroreceptors

GS anatomy

. sense organs

. . baroreceptors receptors (physiology)

. baroreceptors

RT pressure proprioceptors

#### barotrauma because of environmental factors such as adverse seals (stoppers) GS injuries climate, poor soil, o, or winds, Used for barrens. shielding barotrauma UF thermal barriers (plasma control) barrens RT decompression sickness GS vapor barrier clothing land . barren land diving (underwater) walls RT arid lands wind (meteorology) badlands windows (apertures) barotropic flow desertification GS fluid flow barriers (landforms) . barotropic flow deserts Elongated offshore ridges or masses, RT land use air currents usually of sand, rising above the high-tide level, air flow Sahara Desert (Africa) generally extending parallel to, and at some baroclinic waves sites distance from, the shore, and separated from it by baroclinity soils barotropism topography some kind of coastal bay. It is built up by the action of waves and currents. flow characteristics barrens GS landforms lee waves USE barren land . barriers (landforms) planetary waves . . Outer Banks (NC) Rayleigh waves barricades Rossby regimes . . reefs barriers USE $RT \infty \ barriers$ sea breeze bars (landforms) viscous flow barrier injection transit time diodes island arcs wind (meteorology) USE **Barritt diodes** wind shear **Barritt diodes** barrier layers Barrier injection transit time diodes that barotropism UF Bardeen approximation operate similarly to IMPATT diodes. The operating The state of a fluid in which surfaces of RT∞ barriers frequencies are determined by the transit times constant density (or temperature) are coincident Barritt diodes across the drift. Used for barrier injection transit with surfaces of constant pressure; it is the state interlayers time diodes. of zero baroclinity. **JFET** UF barrier injection transit time diodes GS barotropism ioints (iunctions) GS electronic equipment . planetary waves junction diodes diodes RT baroclinity junction transistors . . semiconductor diodes barotropic flow ∞ layers ... Barritt diodes ∞ isobars MBM junctions . solid state devices nonohmic effect . . semiconductor devices ∞ barrages resonant tunneling . . . Barritt diodes (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS SN seals (stoppers) RT avalanche diodes semiconductor devices barrier layers LISTED BELOW) SIS (semiconductors) RT ∞ barriers artillery fire surface layers dams carrier injection tunnel junctions cryosar waterproofing barred galaxies electric potential Zener effect Spiral galaxies whose nuclei are in the injection junction diodes shape of bars at the ends of which the spiral arms ∞ barriers begin. About one fifth of all spiral galaxies are microwave oscillators (USE OF A MORE SPECIFIC TERM IS barred spirals. rectifiers RECOMMENDED—CONSULT THE TERMS GS celestial bodies LISTED BELOW) Schottky diodes Any materials limiting passage through . galaxies semiconductor junctions itself of solids, liquids, semisolids, gases, or forms . . spiral galaxies shot noise of energy such as ultraviolet light. Used for . . . barred galaxies transit time barricades and obstacles. RT disk galaxies barricades bars galactic structure obstacles GS bars Hubble diagram RT abort apparatus . elastic bars local group (astronomy) acoustic velocity . prismatic bars star clusters arresting gear metal plates RT star distribution baffles rods stars barrier lavers Virgo galactic cluster structural members barriers (landforms) bars (landforms) Barritt diodes ∞ barrels blood-brain barrier A generic term for any of various (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS bulkheads elongate offshore ridges, banks, or mounds of sand, gravel, or other unconsolidated material, LISTED BELOW) chains barrels (containers) closures submerged at least at high tides, and built up by $\infty$ drums constrictions the action of waves or currents on the water gun launchers curtains bottom, especially at the mouth of a river or estuary, or at a slight distance from the beach. dams barrels (containers) dividers Bars commonly form obstructions to water UF casks electrode film barriers navigation. RT∞ barrels enclosures UF tombolos fences (barriers) GS landforms drums (containers) gates (openings) . bars (landforms) quards (shields) RT barriers (landforms) barren land MBM junctions beaches

safety devices

Schottky diodes

coastal plains

lagoons

Rugged or unproductive lands devoid of

significant vegetation compared to adjacent areas

littoral drift jet exhaust basins (containers) reefs jet impingement tanks (containers) ∞ radiation barycenter baskets rocket exhaust USE center of gravity  $RT \infty$  containers base pressure gondolas baryon resonance DEF In aerodynamics, the pressure exerted An anomaly found in scattering cross bastnasite on the base, or extreme aft end, of a body, as of sections indicating the existence of an unstable, a cylindrical or boattailed body or of a GS carbon compounds excited state of baryon. . carbonates blunt-trailing-edge wing, in a fluid flow. resonance . . bastnasite GS pressure . baryon resonance minerals . base pressure RT baryons . bastnasite RT aerodynamic drag hyperons rare earth compounds scattering cross sections . cerium compounds basements bastnasite RT buildings baryons floors GS particles batch processing foundations . elementary particles GS data processing . . fermions . batch processing . . . baryons computer programming (USE OF A MORE SPECIFIC TERM IS . . . . hyperons RECOMMENDED—CONSULT THE TERMS computer programs . . . . . xi hyperons LISTED BELOW) data processing equipment . . . . omega-mesons bases (chemical) ∞ processing . . . . rho-mesons data bases . . . . sigma-mesons foundations bathing . . hadrons inorganic compounds GS cleaning . . . baryons ion concentration . washing . . . . hyperons lunar bases . . bathing . . . . . xi hyperons space bases RT cooling . . . . omega-mesons stations hygiene . . . . rho-mesons waste water . . . sigma-mesons bases (chemical) barvon resonance bases (chemical) batholiths cold neutrons . adenines GS rock intrusions dark matter . alkalies . batholiths eta-mesons . . lithium hydroxides rocks fast neutrons . . potassium hydroxides . bedrock gravitinos . . sodium hydroxides . . batholiths kaons . alkaloids RT granite meson resonance . . atropine igneous rocks mesons . . betaines muons . . caffeine baths neutrons . . colchicine (EXCLUDES BATHING) SN nucleons . . ergotamine baths photoneutrons . . hyoscine . salt baths pions . . lysergine RT dipping protons . . morphine electroplating recoil protons . . nicotinamide heat transfer solar protons . . nicotine quenching (cooling) thermal neutrons . . pilocarpine  $\infty \ \ \text{soaking}$ . . reserpine submerging basalt . . strychnine water immersion GS rocks . . tropyl compounds . igneous rocks . quanines . . basalt . piperidine Instruments that measure the ocean RT cones (volcanoes) . pyridines depths and check the topography of the ocean lunar maria . quinoline floor. Used for bathymetry. Mars volcanoes . thymidine UF bathymetry regolith . uracil measuring instruments soils alkalinity . bathymeters volcanoes anhydrides RT depth measurement volcanology ∞ bases oceanography buffers (chemistry) base flow sounding рΗ underwater research laboratories DFF Fluid flow at the base or extreme aft end of a body. bases (foundations) bathymetry GS fluid flow USE foundations USE bathymeters . base flow RT head flow **BASIC** (programming language) bathythermographs wakes measuring instruments GS languages . programming languages . temperature measuring instruments base heating .. BASIC (programming language) . . bathythermographs GS heating . base heating RT computer programming recording instruments RT afterbodies . bathythermographs convection basins pressure gradients

USE

exhaust nozzles

structural basins

temperature gradients

bats		bayous			decoding
GS	animals	DEF	A term variously applied to many local		digital techniques
	. vertebrates	water fe	atures in the lower Mississippi River basin		error correcting devices
			• •		
	mammals		ne Gulf Coast region of the U.S., especially		information theory
	bats	in Louis	iana. Its general meaning is a creek of a		parity
		seconda	ry watercourse that is tributary to another		random errors
batteries		body of	water; especially through alluvial lowlands,		
USE	electric batteries	•	swamps or river deltas. The origin of the	BCS the	eory
OOL	ciccine batteries		,	UF	Bardeen-Cooper-Schrieffer theory
			from the American French "boyau", "gut";	RT	
battery of	chargers	from the	Choctaw "bayuk", "small stream".	IXI	many body problem
RT	charge efficiency	GS	landforms		superconductivity
00	charging		inlets (topography)	00	theories
	electric batteries				thermodynamic coupling
		DT	bayous		, , ,
	pulse charging	RT	lakes	BE A	
	storage batteries		marshlands	USE	Beacon Explorer A
			rivers	USL	Beacon Explorer A
battery s	eparators			BE B	
USE	separators	$\infty$ bays			E - 1 00 1114 -
UUL	separators .	-	(USE OF A MORE SPECIFIC TERM IS	USE	Explorer 22 satellite
		SN	(USE OF A MORE SPECIFIC TERM IS		
Bauschi	nger effect		RECOMMENDED—CONSULT THE TERMS LISTED BELOW)	BE C	
$RT \infty$	effects	RT		USE	Explorer 27 satellite
	fatigue (materials)	IX I	bays (structural units)		•
	microstructure		bays (topographic features)	BE-3 e	ngine
	microstructure			GS	engines
		bays (s	tructural units)	-	o .
bauxite		RT	aircraft compartments		. rocket engines
DEF	A farruginous aluminium hydroxide rock		airframes		retrorocket engines
	g of several minerals. It is the principle				BE-3 engine
	-	∞	bays	RT	Athena rocket vehicle
source to	or aluminum.		compartments		
RT	aluminum oxides		fuselages		Ranger lunar landing vehicles
	minerals		hulls (structures)		solid propellant rocket engines
	rocks		· ·		
	TOCKS		shells (structural forms)	beache	S
				DEF	Stretches of unconsolidated material that
bay ice		bays (to	ppographic features)	constitut	te gently sloping zones, typically with
GS	ice	DEF	Wide, curving open indentations,		
	. bay ice	recesse	s, or arms of seas or lakes into the land	concave	profiles, extending landward from the
БТ	=			low-wat	er line to the place where there is a
RT	freezing		een two capes or headlands; larger than	definite	change in material or physiographic form.
	frost	coves, a	and usually smaller than, but of the same		
	ice formation	general	character as gulfs. Used for bights and		r advancing shorelines, backshores, and
		coves.	0	inshore	zones.
	ice mapping		highto	UF	advancing shorelines
	ice reporting	UF	bights		backshores
	lake ice		coves		
	low temperature	GS	bays (topographic features)		inshore zones
			. Chesapeake Bay (US)	RT	bars (landforms)
	navigation				coastal currents
	oceanography		. Delaware Bay (US)		coastal plains
	sea ice		. Hudson Bay (Canada)		-
	slush		. Monterey Bay (CA)		coasts
			. Saginaw Bay (MI)		cusps (landforms)
	water				dunes
			. San Francisco Bay (CA)		lagoons
Bayard-	Alpert ionization gages		. San Pablo Bay (CA)		3
DEF	Ionization vacuum gages using a tube	RT ~	bays		lakes
		00	estuaries		littoral drift
	electrode structure designed to minimize				marine environments
x ray in	duced electron emission from the ion		gulfs		
collector.			inlets (topography)		shoals
GS	measuring instruments		· · · · · · ·		shorelines
	_	BBGKY	hierarchy		topography
	. pressure gages	GS	classifications		waterfowl
	vacuum gages	33			
	ionization gages		. hierarchies	Beacon	Collision Avoidance System
	Bayard-Alpert ionization gages		BBGKY hierarchy		<del>_</del>
		RT	Bogoliubov theory	UF	BCAS
	vacuum apparatus	111	Boltzmann transport equation	GS	avoidance
	. vacuum gages		·		. collision avoidance
	ionization gages		equations of state		Beacon Collision Avoidance
	Bayard–Alpert ionization gages		Fourier transformation		
БТ			kinetic equations		System
RT	hot cathodes		•	RT	air traffic control
			plasma physics		aircraft safety
Bayes th	neorem	5040			midair collisions
UF	Bayesian statistics	BCAS			
	•	USE	Beacon Collision Avoidance System		radio beacons
GS	theorems			000	systems
	. Bayes theorem	BCC lat	tices		transponders
RT	belief networks	USE	body centered cubic lattices		In account
		USE	Dody Centered Cubic lattices	Beacon	Explorer A
	quality control	DCU co	dos		
	sampling	BCH co		UF	BE A
		UF	Bose–Chaudhuri–Hocquenghem codes		S–66 satellite
Bavesian	n belief networks	RT	binary codes	GS	artificial satellites
-	belief networks		codes		
USE	Deliet Hermoliks	000			. passive satellites
			coding		Beacon satellites
Bayesian	n statistics		computer programming		Beacon Explorer A
ÚŠE	Bayes theorem		decoders		expandable structures
	,				

. inflatable structures Beagle aircraft missile systems . . inflatable spacecraft RT ∞ aircraft beam splitters . . . Beacon satellites beam currents Partially reflecting mirrors which permit . . . . Beacon Explorer A Currents incident on specimens by some incident light to pass through and reflect the inflatable space structures primary particle sources. . inflatable spacecraft electric current RT beams (radiation) . . Beacon satellites beam currents particle accelerators . . . Beacon Explorer A backward wave tubes particle beams space erectable structures Brillouin flow scatter plates (optics) . inflatable spacecraft . . Beacon satellites beam steering plasma currents ... Beacon Explorer A (added June 1997) RT Delta launch vehicle beam forming GS steering USE beamforming . beam steering Beacon Explorer B antenna radiation patterns USE Explorer 22 satellite beam injection beam waveguides The introduction of a particle radiation beamforming Beacon Explorer C beam into a plasma or ionized gas for the purpose beams (radiation) USE Explorer 27 satellite of diagnostics, plasma control, or the study of collimation beam/plasma interactions. laser beams Beacon satellites electron beams steerable antennas polar ionosphere beacon ion beams artificial satellites GS neutral beams beam switching . passive satellites plasma heating switching GS . . Beacon satellites plasma-particle interactions beam switching . . . Beacon Explorer A tokamak devices RT beams (radiation) . . . Explorer 22 satellite toroidal plasmas electron optics expandable structures ion engines . inflatable structures beam interactions . . inflatable spacecraft A general term for interactions between magnetic switching . . . Beacon satellites various types of beams with each other or with packet switching . . . . Beacon Explorer A plasmas or substances. . . Explorer 22 satellite beams (radiation) beam waveguides inflatable space structures collision parameters GS waveguides . inflatable spacecraft high energy interactions beam waveguides . . Beacon satellites RT beam steering . . . Beacon Explorer A wave-particle interactions collimators . . . Explorer 22 satellite photon beams beam leads space erectable structures plasmaguides GS conductors . inflatable spacecraft rectangular waveguides . electric conductors . . Beacon satellites wave propagation . . beam leads . . . Beacon Explorer A vokes . flat conductors . . Explorer 22 satellite . beam leads RT LOCATES system beamed power bonding USE power beaming electric connectors beacons ∞ joining Lights, groups of lights, electronic beamforming DEF microelectronics (added September 1992) apparatus, or other devices that guide, orient, or micromodules beam forming warn aircraft, spacecraft, etc. in flight. navigation aids soldered joints beamshaping . beacons GS collimation beam neutralization . . airport beacons beamforming Neutralization that takes place by means . . . discrete address beacon system antenna arrays of charge exchange with a neutral gas. antenna radiation patterns . . radar beacons beams (radiation) . . . discrete address beacon system beam steering electron beams . . radio beacons beams (radiation) ion beams . . . omnidirectional radio ranges laser beams neutral beams . . . . self calibrating omnirange polarization (waves) . . radio direction finders radar beams beam plasma amplifiers aircraft lights GS amplifiers buoys . beam plasma amplifiers (USE OF A MORE SPECIFIC TERM IS compasses RT electron beams RECOMMENDED—CONSULT THE TERMS homing millimeter waves LISTED BELOW) homing devices beams (radiation) plasma-particle interactions instrument flight rules plasmas (physics) beams (supports) markers relativistic electron beams beams (radiation) position indicators beam rider guidance beams (radiation) projectors System for guiding aircraft, spacecraft, . gamma ray beams searchlights or missiles, along a desired path by means of a . light beams ∞ signals radar beam, light beam, etc. The center of the . . laser beams solar compasses . microbeams visual signals beam axis forms a line along which the vehicle

senses its location and corrects its course relative

guidance (motion)

missile control

. beam rider guidance

to the beam axis.

GS

### beads RT

RT spot welds welded joints welding . particle beams

. . atomic beams

. . electron beams

	neutral beams	bearing	alloys		superheterodyne receivers
	molecular beams	GS	alloys		
	neutron beams		. bearing alloys	Beaufor	t Sea (North America)
	neutrino beams	RT	aluminum alloys	GS	seas
	pion beams		babbitt metal		. Beaufort Sea (North America)
	·			RT	Alaska
	proton beams		bearings		Arctic Ocean
	. pencil beams		cadmium alloys		Canada
	. phonon beams		copper alloys		Canada
	. photon beams		iron alloys	bed rest	•
	. radar beams		lead alloys	GS	rest
RT	beam interactions		metal powder	GS	
	beam neutralization		silver alloys	5.	bed rest
	beam splitters		tin alloys	RT	calcium metabolism
	beam steering		zinc alloys		clinical medicine
	5		Ziric alloys		head down tilt
	beam switching	bearing	ess rotors		orthostatic tolerance
	beamforming	GS	airfoils		
∞	beams	00	. wings	bedding	equipment
	coherent electromagnetic radiation			RT∞	blankets
	coherent radiation		rotary wings	∞	equipment
	corpuscular radiation		lifting rotors		
	electromagnetic radiation		bearingless rotors	bediasit	es
	extreme ultraviolet radiation		rotating bodies	GS	celestial bodies
	infrared radiation		. rotors		. meteorites
			rotary wings		
	ionizing radiation		lifting rotors		stony meteorites
	irradiation		9		tektites
	light (visible radiation)	5.7	bearingless rotors		bediasites
	longitudinal waves	RT	hinges	RT	australites
	monochromatic radiation		rigid rotors		
	multibeam antennas			bedrock	
	plane waves	bearings		UF	shields (geology)
	radiation	GS	bearings	GS	rocks
			. antifriction bearings		. bedrock
∞	rays		ball bearings		Baltic Shield (Europe)
	submillimeter waves		roller bearings		batholiths
	ultraviolet radiation		needle bearings	DT	
			9	RT	Earth resources
beams (	supports)		. foil bearings		geology
UF `	structural beams		. gas bearings		regolith
GS	structural members		. journal bearings	∞	shelves
00			. liquid bearings		soils
	beams (supports)		. magnetic bearings		strata
	box beams		. thrust bearings		stratification
	cantilever beams	RT∞	bearing		
	curved beams	00	bearing alloys		stratigraphy
	I beams		- ·		tunneling (excavation)
	rectangular beams		boundary lubrication	b a da	
	Timoshenko beams		bushings	beds	
RT∝	beams		gimbals	RT	beds (process engineering)
KTω			idlers		couches
	columns (supports)		internal combustion engines		
	girders		lubrication	beds (ge	eology)
$\infty$	headers		packings (seals)	UF	lake beds
	plastic bodies		pivots	GS	geology
	T shape		·		beds (geology)
	trusses		shafts (machine elements)		salt beds
			supports		landforms
beamsha	anina		suspension systems (vehicles)		
USE	beamforming		swivels		. beds (geology)
USL	beamorning		wheels		salt beds
				RT	ocean bottom
∞ bearing		bears			strata
SN	(USE OF A MORE SPECIFIC TERM IS	GS	animals		stratigraphy
	RECOMMENDED—CONSULT THE TERMS		. vertebrates		
DT	LISTED BELOW)		mammals	beds (pi	rocess engineering)
RT	bearing (direction)		bears	RT	beds
	bearings		bcars		chemical reactors
	internal combustion engines	beat			extraction
		USE	synchronism		filtration
bearing	(direction)	OOL	Synchronism		
RT	alignment	heat free	quencies		fluidized bed processors
	azimuth				ion exchanging
		DEF	The frequencies obtained when two		percolation
	bearing	•	armonic quantities of different frequencies		
$\infty$	direction		2 are superimposed. The beat frequency		9 aircraft
	direction finding	equals f1	I–f2.	DEF	Light, low-wing aircraft manufactured by
	exposure	GS	frequencies	Beechcra	aft.
	field of view		beat frequencies	GS	Beechcraft aircraft
	instrument orientation	RT	group velocity		. Beech 99 aircraft
_	orientation	13.1	intermediate frequency amplifiers		Beech 39 aircraft
∞					
	position (location)		Moire effects		C–33 aircraft
	sound localization		resonant frequencies		C-35 aircraft
$\infty$	space orientation		standing waves		light aircraft

	. Beech 99 aircraft	Belarus		Bellman	theory
	Beechcraft 18 aircraft	(adde	d August 1993)	RT	dynamic programming
	C-33 aircraft	ĞS	nations		optimization
	C-35 aircraft		Belarus	~	theories
PT as	aircraft	RT	Europe	~	11001100
		IXI	Luiope	bellows	
00	low wing aircraft	Belfast a	aircraft		
		USE	SC–5 aircraft	SN	(EXPANDABLE JOINTS—FOR DEVICES TO
Beech a		USE	SC-S all'Clait	חרר	MOVE GASES, USE BLOWERS)
USE	Beechcraft aircraft	Belgian	Congo	DEF	Mechanical structures with walls like
		•	•		an accordion.
Beech C	C–33 aircraft	USE	Democratic Republic of Congo	GS	expandable structures
USE	C-33 aircraft	Daladaa			. bellows
			space program	RT	expulsion bladders
Beech S	1–35 aircraft		d August 1990)		joints (junctions)
USE	C–35 aircraft	GS	programs		
UUL	C-33 aircrait		. space programs		pumps
D l			European space programs		
	aft 18 aircraft		Belgian space program	bells	
GS	Beechcraft aircraft	DT		RT	auditory signals
	. Beech 99 aircraft	RT	Belgium		pressure vessels
	Beechcraft 18 aircraft	Dalaina			psychoacoustics
	general aviation aircraft	Belgium			
	. Beechcraft 18 aircraft	GS	nations	00	signals
			. Belgium		sound generators
	light aircraft	RT	Belgian space program		warning
	. Beech 99 aircraft		Europe		warning systems
	Beechcraft 18 aircraft		· 전투표		
	monoplanes	belief n	etworks	Beltram	i flow
	. Beechcraft 18 aircraft		d December 1994)	GS	fluid flow
pT.	aircraft	•	,	33	
KI∞	allClaft	DEF	Artificial Intelligence technique for		. Beltrami flow
		computi	ng probabalistic information.	RT	incompressible flow
	aft aircraft	UF	Bayesian belief networks		steady flow
UF	Beech aircraft	GS	networks		vorticity
GS	Beechcraft aircraft		. belief networks		•
	. Beech 99 aircraft	RT	artificial intelligence	∞ belts	
	Beechcraft 18 aircraft	IXI			(LICE OF A MODE COFCIFIC TERM IC
	C–33 aircraft		Bayes theorem	SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS
			computer techniques		LISTED BELOW)
	C-35 aircraft		expert systems	RT	asteroid belts
RT∞	aircraft		knowledge representation	111	
			neural nets		cables (ropes)
Beer lav	V				fasteners
RT	absorptivity		probability theory		girdles
	Bouguer law	Belize			proton belts
	•		B ** 1 11 1		pulleys
	electromagnetic absorption	UF	British Honduras		radiation belts
	molecular absorption	GS	nations		
			. Belize		regions
bees		RT	Caribbean region		Rouse belts
GS	animals		Caribbean Sea		seat belts
	. invertebrates		Central America		terrestrial dust belt
	arthropods		Central America		
	•	Ball 21/	A helicopter	Benard	calls
	insects			GS	
	bees	DEF	Sixteen-seat utility helicopter	GS	convection
RT	swarming	manufac	tured by Bell Helicopter.		. free convection
		GS	Bell aircraft		Rayleigh–Benard convection
beetles			. Bell 214A helicopter		Benard cells
GS	animals		V/STOL aircraft		fluid flow
	. invertebrates				. convective flow
			rotary wing aircraft		
	arthropods		helicopters		Rayleigh–Benard convection
	insects		Bell 214A helicopter		Benard cells
	Coleoptera	RT∞	aircraft	RT	convection currents
	beetles		vertical takeoff aircraft		convection-diffusion equation
	tribolia				Rayleigh number
RT	infestation	Bell aird	raft		solar convection (astronomy)
111	mestation	GS	Bell aircraft		
behavio	-	00	. AH–1S helicopter		solar granulation
			·		stellar convection
DEF	The way in which an organism, organ,		. AH–1W helicopter		
body, or	substance acts in an environment or		. AH–63 helicopter	benches	
responds	s to excitation, as the behavior of steel		. Bell 214A helicopter	USE	seats
under st	ress, or the behavior of an animal in a		. OH-4 helicopter		
test.	,		. OH–13 helicopter	bend tes	sts
	hohavior				
GS	behavior		. UH-1 helicopter	DEF	Ductility tests in which specimens are
	. deconditioning		. V–22 aircraft		ough an arc of known radius and angle.
	. human behavior		. X-1 aircraft	RT	bending
RT	conditioning (learning)		. X-2 aircraft		crack propagation
	diagnosis		. X-5 aircraft		destructive tests
	education		. X–14 aircraft		flexural strength
					S .
	extroversion		. X–22 aircraft		fracture mechanics
	learning		. XV-3 aircraft		fracture strength
	migration		. XV-15 aircraft	∞	materials tests

 $\text{RT} \, \infty \, \text{ aircraft}$ 

Skinner boxes

 $\infty \ \text{tests}$ 

bending			concentrating		benzoic acid
GS	bending	~	conditioning		organic compounds
00	. elastic bending	00	enrichment		. carboxylic acids
RT	bend tests		exploitation		fatty acids
	bows		extraction		benzoic acid
	buckling		filtration		
	camber		flotation	benzoqu	inone
	deflection		foaming	USE	quinones
	deformation		isotopic enrichment		
	displacement		leaching		e rocket vehicle
	distortion	~	metallurgy	GS	rocket vehicles
	elastic deformation	00	minerals		. multistage rocket vehicles
	fatique tests		purification		Berenice rocket vehicle
	fiber strength		refining	RT	hypersonic reentry
	flexibility	~	separation		solid propellant rocket engines
	flexing		settling	Poramo	n energter
	flutter		size separation	GS	n operator
	folding		sublimation	GS	operators (mathematics) . Bergman operator
	heaving		upgrading		. Berginan operator
	modulus of elasticity		washing	Bering \$	Sea
	plastic deformation		wastes	GS	seas
	stiffness				. Bering Sea
	structural failure	Benin		RT	Pacific Ocean
	structural strain	UF	Dahomey		
	temperature inversions	GS	nations	berkeliu	m
	twisting		. Benin	GS	chemical elements
	warpage	RT	Africa		. actinide series
					transuranium elements
bending	diagrams	bentoni			berkelium
GS	diagrams	DEF	A soft, plastic, porous , light colored rock		. nuclides
	. bending diagrams	•	ed essentially of clay minerals of the		isotopes
RT	deflection		rillonite group plus colloidal silica, and		radioactive isotopes
		•	d by divitrification and chemical alteration		transuranium elements
bending	_	_	ssy igneous material, usually a tuff or a		berkelium
GS	fatigue (materials)	volcanic			metals
	. bending fatigue	RT	montmorillonite		. actinide series
RT	flexural strength		soils		transuranium elements
	metal fatigue		water treatment		berkelium
	S-N diagrams	benzene	<u>,                                      </u>		
		GS	organic compounds	Bermud	
_	moments	65	. cyclic compounds	GS	landforms
GS	moments		cyclic compounds		. islands
БТ	bending moments		benzene		Bermuda
RT			Delizerie		Atlantic Ocean
	loading moments		hydrocarbons	RT	
	NASTRAN		. hydrocarbons		i equation
	NASTRAN static loads		cyclic hydrocarbons	Bernoull	i equation
	NASTRAN static loads stress analysis	PΤ	cyclic hydrocarbons benzene		i equation Bernoulli theorem
	NASTRAN static loads stress analysis structural design criteria	RT	cyclic hydrocarbons benzene chlorobenzenes	<i>Bernoull</i> USE	•
	NASTRAN static loads stress analysis	RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane	<i>Bernoull</i> USE	Bernoulli theorem li theorem
hending	NASTRAN static loads stress analysis structural design criteria torque	RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal	Bernoull USE Bernoul DEF	Bernoulli theorem  li theorem In aeronautics, a law or theorem stating
bending	NASTRAN static loads stress analysis structural design criteria torque	RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane	Bernoull USE Bernoul DEF that in a	Bernoulli theorem  li theorem  In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the
_	NASTRAN static loads stress analysis structural design criteria torque		cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes	Bernoull USE  Bernoul DEF that in a static pro	Bernoulli theorem  li theorem  In aeronautics, a law or theorem stating
_	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength		cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal	Bernoull USE  Bernoul DEF that in a static pro	Bernoulli theorem  Ii theorem  In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a
USE <b>bending</b>	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory	benzene	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning	Bernoull USE  Bernoul DEF that in a static pre streamlin effects a	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional
USE	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis	benzene	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases	Bernoull USE  Bernoul DEF that in a static prestreamlir effects a Bernoull	Bernoulli theorem  li theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel
USE bending	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory	benzene	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases	Bernoull USE  Bernoul DEF that in a static prestreamlir effects a Bernoull	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to
USE bending	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors	benzene	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning	Bernoull USE  Bernoul DEF that in a static pre streamlir effects a Bernoull 1782. Us	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.
USE bending RT	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors	benzene	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity	Bernoull USE  Bernoul DEF that in a static pre streamlif effects a Bernoull 1782. Us	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation
USE bending RT	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories	benzene GS	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity . benzene poisoning	Bernoull USE  Bernoul DEF that in a static pre streamlif effects a Bernoull 1782. Us	Bernoulli theorem  Ii theorem  In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems
USE  bending  RT    bending	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration	benzene GS RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity . benzene poisoning hydrocarbon poisoning	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorem  Bernoulli theorem
USE  bending  RT    bending	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration	benzene GS RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity . benzene poisoning hydrocarbon poisoning industrial safety	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations
USE  bending  RT    bending	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration vibration structural vibration	benzene GS RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity . benzene poisoning industrial safety poisoning	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations
bending RT   bending GS	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration vibration structural vibration bending vibration	benzene GS RT	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases benzene poisoning toxicity . benzene poisoning hydrocarbon poisoning industrial safety poisoning toxicity and safety hazard toxicology	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. UF GS RT	Bernoulli theorem  li theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations
bending RT   bending GS	NASTRAN static loads stress analysis structural design criteria torque  strength flexural strength  theory stress analysis stress intensity factors theories  vibration vibration . structural vibration breathing vibration	benzene GS RT &	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases benzene poisoning toxicity benzene poisoning hydrocarbon poisoning industrial safety poisoning toxicity and safety hazard toxicology acid	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  . Bernoulli theorem conservation equations flow equations flow equations
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bending RT   bending GS	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration vibration . structural vibration . bending vibration breathing vibration flutter missile vibration	benzene GS RT &	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity . benzene poisoning industrial safety poisoning toxicity and safety hazard toxicology acid acids . carboxylic acids	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations flow equations flow equations fluid flow isentropic processes linearization
bending RT   bending GS	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration vibration . structural vibration breathing vibration flutter missile vibration panel flutter	benzene GS RT &	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  poisoning diseases . toxic diseases . benzene poisoning toxicity benzene poisoning hydrocarbon poisoning industrial safety poisoning toxicity and safety hazard toxicology  acid acids . carboxylic acids . fatty acids	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. Us UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics)
bending RT       bending GS   RT	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration vibration . structural vibration breathing vibration flutter missile vibration panel flutter random vibration self induced vibration	benzene GS RT &	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes e poisoning diseases . toxic diseases . benzene poisoning toxicity benzene poisoning industrial safety poisoning toxicity and safety hazard toxicology acid acids . carboxylic acids . fatty acids benzilic acid	Bernoull USE  Bernoul DEF that in a static pre streamlir effects a Bernoull 1782. Us UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems  Bernoulli theorem conservation equations equations flow equations fluid flow isentropic processes linearization  Magnus effect panel method (fluid dynamics)  in energy principle
bending RT      bending GS  RT    bends (p	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration . structural vibration breathing vibration breathing vibration panel flutter random vibration self induced vibration shysiology)	benzene GS RT &	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  poisoning diseases . toxic diseases . benzene poisoning toxicity benzene poisoning industrial safety poisoning toxicity and safety hazard toxicology  acid acids . carboxylic acids . fatty acids . benzilic acid organic compounds	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. Us UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems Bernoulli theorem conservation equations flow equations flow equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics) in energy principle structural analysis
bending RT       bending GS   RT	NASTRAN static loads stress analysis structural design criteria torque strength flexural strength theory stress analysis stress intensity factors theories vibration vibration . structural vibration breathing vibration flutter missile vibration panel flutter random vibration self induced vibration	benzene GS RT &	cyclic hydrocarbons benzene chlorobenzenes cyclohexane solvent refined coal thiophenes  a poisoning diseases . toxic diseases . benzene poisoning toxicity . benzene poisoning industrial safety poisoning toxicity and safety hazard toxicology  acid acids . carboxylic acids . fatty acids benzilic acid organic compounds . carboxylic acids . carboxylic acids	Bernoull USE  Bernoull DEF that in a static pre streamlir effects a Bernoull 1782. Us UF GS RT	Bernoulli theorem  Ii theorem In aeronautics, a law or theorem stating flow of incompressible fluid the sum of the essure and the dynamic pressure along a ne is constant if gravity and frictional are disregarded. It is named for Daniel i, a Swiss scientist who lived from 1700 to sed for Bernoulli equation.  Bernoulli equation theorems Bernoulli theorem conservation equations equations fluid flow isentropic processes linearization Magnus effect panel method (fluid dynamics) in energy principle structural analysis energy methods
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. carboxylic acids

aluminum compounds

GS

comminution

	. beryl	beryllium alloys	beryllium 7
	alexandrite	GS alloys	beryllium 9
	beryllium compounds	. light alloys	beryllium 10
	. beryl	beryllium alloys	. nuclides
	alexandrite	berymum anoys	
		beryllium borohydrides	. isotopes
	minerals	GS beryllium compounds	beryllium isotopes
	. beryl		beryllium 7
	alexandrite	beryllium borohydride	s beryllium 9
	silicon compounds	boron compounds	beryllium 10
	. silicates	. borohydrides	metals
	beryl	beryllium borohydrid	
	alexandrite	boron hydrides	· · · · · · · · · · · · · · · · · · ·
рт		beryllium borohydrid	beryllium isotopes
RT	beryllium		Borymann 7
		hydrogen compounds	beryllium 9
berylliu		. hydrides	beryllium 10
GS	chemical elements	borohydrides	
	. beryllium	beryllium borohydri	des beryllium nitrides
	beryllium isotopes	boron hydrides	GS beryllium compounds
	beryllium 7	beryllium borohydri	
	•		nitrogen compounds
	beryllium 9	beryllium chlorides	
	beryllium 10	GS beryllium compounds	. nitrides
	metals	, ,	metal nitrides
	. beryllium	. beryllium chlorides	beryllium nitrides
	beryllium isotopes	halogen compounds	
	beryllium 7	. chlorine compounds	beryllium oxides
	•	chlorides	GS beryllium compounds
	beryllium 9	beryllium chlorides	. beryllium oxides
	beryllium 10	. halides	<del>_</del>
RT	beryl		alexandrite
	moderators	chlorides	chalcogenides
		beryllium chlorides	. oxides
berylliu	ım 10	metal halides	metal oxides
GS	chemical elements	beryllium chlorides	alkaline earth oxides
63		,	beryllium oxides
	. beryllium	beryllium compounds	
	beryllium isotopes	GS beryllium compounds	alexandrite
	beryllium 10	,	hamilium maiaaning
	. nuclides	. beryl	beryllium poisoning
	isotopes	alexandrite	GS diseases
	beryllium isotopes	. beryllium borohydrides	. toxic diseases
		. beryllium chlorides	beryllium poisoning
	beryllium 10	beryllium fluorides	toxicity
	radioactive isotopes	. beryllium hydrides	. beryllium poisoning
	beryllium 10		
	metals	. beryllium nitrides	RT industrial safety
	. beryllium	. beryllium oxides	∞ poisoning
		alexandrite	respiratory diseases
	beryllium isotopes	RT ∞ alkaline earth compounds	toxicity and safety hazard
	beryllium 10		toxicology
		∞ metal compounds	toxioology
berylliu	ım 7	· · · · · · · · · · · · · · · · · · ·	BESS (satellite)
GS	chemical elements	metal fuels	· ,
	. beryllium	metal propellants	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	beryllium isotopes		experiment scientific satellite that was never
		beryllium fluorides	developed. Used for biomedical experiment
	beryllium 7	GS beryllium compounds	scientific satellite.
	. nuclides	. beryllium fluorides	UF Biomedical Experiment Scientific
	isotopes	halogen compounds	Satellite
	beryllium isotopes	. fluorine compounds	GS artificial satellites
	beryllium 7	•	
	radioactive isotopes	fluorides	BESS (satellite)
	beryllium 7	metal fluorides	RT multimission modular spacecraft
	•	beryllium fluoride:	space shuttles
	metals	. halides	
	. beryllium	fluorides	Bessel functions
	beryllium isotopes	metal fluorides	GS analysis (mathematics)
	beryllium 7		
	•	beryllium fluorides	Bessel functions
berylliu	ım 9	metal halides	
GS	chemical elements	metal fluorides	Hankel functions
63		beryllium fluorides	. real variables
	. beryllium		Bessel functions
	beryllium isotopes	beryllium hydrides	Hankel functions
	beryllium 9	GS beryllium compounds	RT boundary value problems
	. nuclides	. beryllium hydrides	differential equations
	isotopes		·
	-	hydrogen compounds	hypergeometric functions
	beryllium isotopes	. hydrides	orthogonal functions
	beryllium 9	metal hydrides	power series
	radioactive isotopes	beryllium hydrides	
	beryllium 9		Bessel-Bredichin theory
	metals	beryllium isotopes	RT comets
	. beryllium	GS chemical elements	Kohoutek comet
	beryllium isotopes	. beryllium	radiation pressure
	beryllium 9	beryllium isotopes	$\infty$ theories

### beta factor

In plasma physics, the ratio of the plasma kinetic pressure to the magnetic pressure.

dense plasmas fluid pressure fusion reactors magnetic fields

magnetic flux magnetohydrodynamic stability plasma control plasma equilibrium plasma heating plasma physics pressure effects reactor physics tokamak devices toroidal plasmas

beta interactions

weak interactions (field theory) USE

### beta particles

Particles emitted in the radioactive decay of many radionuclides. A beta particle is identical to an electron. It has a short range in air and a low ability to penetrate other materials.

ionizing radiation

. beta particles

nuclear radiation

. beta particles

particles

. charged particles

. . energetic particles

. . . plasmas (physics)

. . . . beta particles

. corpuscular radiation

. . electron radiation

. . . beta particles

. . energetic particles

. . . plasmas (physics)

. . . . beta particles

. elementary particles

. . beta particles

. nuclear particles

. . beta particles

decay

electron beams

electrons flux (rate) hot atoms

N electrons

relativistic electron beams weak energy interactions

### betaines GS

bases (chemical) . alkaloids

. . betaines

nitrogen compounds

. alkaloids

. . betaines

organic compounds

. cyclic compounds

. . heterocyclic compounds

. . . alkaloids

. . . . betaines

# betatrons

Particle accelerators in which magnetic induction is used to accelerate electrons.

particle accelerators

. cyclic accelerators

. . betatrons

. electron accelerators

. . betatrons

microtrons synchrotrons

### Bethe-Heitler formula

mathematical logic

. formulas (mathematics)

. . Bethe-Heitler formula

#### Bethe-Salpeter equation

analysis (mathematics)

real variables

### . . Bethe-Salpeter equation

RT differential equations

∞ equations

equations of motion kinetic equations quantum mechanics

#### bevatron

GS particle accelerators . cyclic accelerators . . synchrotrons

. . . bevatron synchrocyclotrons

# beverages

GS liquids

. potable liquids

beverages

. . wines

coffee drinking

 $\infty$  food milk

# **BGK** model

(added September 1993)

Bhatnagar-Grass-Krook model

GS models

. mathematical models

. BGK model

Boltzmann transport equation

computational fluid dynamics

kinetic equations kinetic theory Knudsen flow

molecular collisions molecular flow

particle collisions rarefied gas dynamics

Bhatnagar-Grass-Krook model

USE **BGK** model

### Bhutan GS

nations

Bhutan

Himalayas India Sikkim

Tibet

Bi-Sr-Ca-Cu-O superconductors

**BSCCO** superconductors

# bias

A constant or systematic error as opposed to a random error. It manifests itself as a persistent positive or negative deviation of the method average from the accepted reference value.

GS

. response bias compensators displacement electric potential errors

instrument errors open circuit voltage

tube grids

### bibliographies

GS documents

bibliographies

RT abstracts biography documentation

> general overviews handbooks

indexes (documentation) information dissemination

information retrieval

libraries literature

∞ reference systems space glossaries

summaries

bicarbonates

USE carbonates

### bicrystals

GS crystals

. bicrystals RT polycrystals single crystals

 $\infty$  bicycle

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW)

landing gear surface vehicles

bidirectional reflectance

electromagnetic properties

. optical properties

. reflectance

. . bidirectional reflectance

light scattering

reflection

spectral reflectance surface properties

# bifurcation (biology)

The separation or branching into two parts, areas, aspects or connected segments, of anatomical systems or functions.

anatomy arteries

 $\infty \ \ \text{biology}$ 

blood vessels

branching (physics)

veins

bifurcation (mathematics)

branching (mathematics)

# big bang cosmology

cosmology GS

. big bang cosmology

astronomical models background radiation cosmic rays

galactic evolution gamma ray bursts grand unified theory

gravitational constant relativity relic radiation universe

# **Bighorn Mountains (MT-WY)**

GS landforms

. mountains

. Bighorn Mountains (MT-WY)

Montana Wyoming

bights			. binary mixtures		two body problem
ÜSE	bays (topographic features)		binary fluids		variable stars
	, - (		mixtures		variable state
biharmo	nic equations		. binary mixtures	binary s	summators
GS	analysis (mathematics)		•	USÉ	adding circuits
	. real variables	DT	binary fluids	002	adding on calls
	differential equations	RT∞		binary s	systems (digital)
			gas mixtures	USÉ	digital systems
	partial differential equations		kinetic theory	002	g 0,0.00
	biharmonic equations		Lennard-Jones gas	binary	systems (materials)
RT	elastic properties		transport properties	UF	two phase systems
00	equations			GS	binary systems (materials)
		binary ir	ntegration	00	
billets		GS	analysis (mathematics)		. binary alloys
RT	casting	00	. real variables		. binary mixtures
	castings				binary fluids
	forging		measure and integration		eutectics
	ingots		binary integration		eutectic alloys
	metal plates	RT	adding circuits	RT	alloys
			digital integrators	~	materials
	metal strips			0.	phase diagrams
	rods	binary n	nixtures		
	slabs	GS	binary systems (materials)		phase separation (materials)
	wire		. binary mixtures		solidus
			· ·	$\propto$	systems
bimetals			binary fluids		ternary systems
RT	alloying		eutectics		
	alloys		eutectic alloys	binary	to decimal converters
	composite materials		mixtures	GS	data converters
	· · · · · · · · · · · · · · · · · · ·		. binary mixtures		. binary to decimal converters
	functionally gradient materials		binary fluids	RT	computer components
	metal bonding		eutectics		·
	metals			~	converters
		DT	eutectic alloys		data processing
bimetric	theories	RT	azeotropes		decimal to binary converters
DEF	Theories of gravitation.		gas mixtures		
RT	gravitation theory		liquid–gas mixtures		al hearing
	metric space			GS	hearing
	Schwarzschild metric	binary p	hase shift keying		. binaural hearing
	theories		d February 1992)		perception
000	trieories	UF	biphase shift keying		binaural hearing
binary a	llove	O1	BPSK	RT	auditory perception
-		00		KI	
GS	alloys	GS	coding		sound localization
	. binary alloys		. signal encoding		Weber test
	binary systems (materials)		phase modulation		
	. binary alloys		phase shift keying		(adhesives)
RT	alloying		binary phase shift keying	USE	adhesives
	cluster variation method		keying		
	oldoto. Talladori illodilod		. phase shift keying		s (materials)
binary c	odes		· -	GS	binders (materials)
DEF	Codes composed of a combination of		. binary phase shift keying		. propellant binders
	·		modulation		solid rocket binders
	each of which can assume one of two		. phase modulation	RT	additives
-	states. Each entity must be identifiable in		phase shift keying		adhesives
time or s	pace.		binary phase shift keying		
RT	BCH codes	RT	quadrature phase shift keying		cements
	bit error rate		satellite transmission	$\propto$	materials
00	codes		Satellite transmission		molding materials
	concatenated codes	hinanı o	toro		oxetane polymers
	digital systems	binary s			sizing materials
		DEF	Systems of two stars revolving about a		solid lubricants
	trellis coding	barycent	er.		oona rabiioamo
hinar: -	ata	GS	celestial bodies	binding	1
binary d			. stars	RT	binding energy
RT	analog data		double stars	13.1	bonding
	bit error rate		binary stars		9
	bubble memory devices				collating
∞	data		cataclysmic variables		folding
	data processing		companion stars	∞	o <b>joining</b>
	decimal to binary converters		Nemesis (star)		printing
			eclipsing binary stars		sealing
	digital data		dwarf novae		sewing
hinanı d	iaita		Lambda Tauri stars		oowing .
binary d	_		Zeta Aurigae star	binding	g energy
GS	symbols		=	_	= -
	. alphanumeric characters		Sigma Orionis	•	ed May 1995)
	digits		symbiotic stars	GS	binding energy
	binary digits		x ray binaries		. gravitational binding energy
RT	bit error rate	RT	accretion disks		. nuclear binding energy
	bits		gravitational binding energy	RT	activation energy
			limb darkening		binding
	digital electronics		star clusters		chemical bonds
	digital systems				
L			stellar parallax		electrostatic bonding
binary fl			stellar systems	00	energy
GS	binary systems (materials)		triple stars		quantum wells

vacancies (crystal defects)

### binocular vision

vision GS

binocular vision

haploscopes motion perception space perception stereoscopic vision

#### binoculars

RT

GS optical equipment

. binoculars

eyepieces microscopes periscopes telescopes

## binomial coefficients

analysis (mathematics) GS

. combinatorial analysis

binomial coefficients

coefficients

. binomial coefficients

RT factorials

#### binomial theorem

algebra

. binomial theorem

theorems

. binomial theorem

binomials

probability density functions

probability theory statistical analysis statistical distributions

### binomials

GS algebra

. polynomials

. binomials

RT binomial theorem

# bioacoustics

RT

acoustics GS

. bioacoustics

acoustic attenuation

auditory defects

auditory sensation areas

bioengineering

∞ biology

psychoacoustics

sound intensity

### bioassay

A standardized procedure for the determination of the effects of an environmental variable or substance on living organisms. Used for biological analysis.

biological analysis UF

RT biochemistry

biological diversity

biological effects

∞ biology

histochemical analysis

### **Bioastronautical Orbital Space System**

programs

NASA programs

. . NASA space programs

... Bioastronautical Orbital Space System

. space programs

. NASA space programs

. . . Bioastronautical Orbital Space System

RT∞ systems

#### bioastronautics

The study of biological, behavioral, and medical problems pertaining to astronautics. This includes systems functioning in the environments expected to be found in space, vehicles designed to travel in space, and the conditions on terrestrial bodies other than the Earth.

aerospace environments

aerospace medicine

∞ astronautics bioengineering

 $\infty$  biology

Biosatellite 1

Biosatellite 2

Biosatellite 3

closed ecological systems

Columbus space station

Earth atmosphere

exobiology

head down tilt

lunar environment

planetary environments

∞ science

space adaptation syndrome

space exploration

space flight

space stations

spacecraft environments

### biochemical fuel cells

electric generators

. direct power generators

. . fuel cells

... biochemical fuel cells

electrochemical cells

. fuel cells

. . biochemical fuel cells

RT ∞ biology

phosphoric acid fuel cells regenerative fuel cells

### biochemical oxygen demand

The amount of oxygen necessary for the oxidative decomposition of a material by microorganisms. The amount of oxygen consumed in mg/1 of water (or waste water) over a period of 5 days at 20 deg. C under laboratory conditions. Used for BOD.

UF BOD

RT algae

∞ biology

ecology

oximetry

oxygen consumption

plants (botany) pollution control

water pollution

water treatment

### biochemistry

Chemistry dealing with the chemical processes and compounds of living organisms.

GS biochemistry

. biogeochemistry

. enzymology

. physiochemistry

bacteriology bioassay

> biodegradation bioengineering

biology

chemical warfare

chemistry

cytology

Gaia hypothesis

genetic engineering

histochemical analysis

immunoassay

interferon

marine chemistry

metabolites

molecular biology

mutagens

nitrogen metabolism

nutrition

optical activity organic chemistry

radioimmunoassay

vegetation growth

### bioclimatology

biometeorology USE

## biocompatibility

Compatibility of substances with living tissues and blood components.

compatibility

# . biocompatibility

RT antibodies

antigens

 $\infty$  biology

blood

immunology leukocytes

physiological defenses

vaccines

# biocontrol systems

(RESTRICTED TO ARTIFICIAL

BIOTECHNOLOGICAL SYSTEMS FOR THE CONTROL OF BIOLOGICAL PROCESSES—USE REGULATORY

MECHANISMS (BIOLOGY) FOR NATURAL PHYSIOLOGICAL REGULATION)

RT biofeedback

> ∞ biology bionics

psychomotor performance

regulatory mechanisms (biology)

 $\infty$  systems

tolerances (physiology)

### bioconversion

The transformation of algae and/or other biomass materials in successive stages to aliphatic organic acids to aliphatic hydrocarbons to diesel and/or other liquid fuels.

RT

algae

∞ biology biomass energy production

bioprocessing

 $\infty$  conversion enzyme activity

fermentation fuels

hydrocarbon fuel production methane

solar heating vegetation

# biodegradability

The characteristic of a substance that can be decomposed by microorganisms.

dissociation GS

# . biodegradability

RT∞ biology

decay

decomposition deterioration

organic materials ∞ properties

# biodegradation

GS degradation

. biodegradation activated sludge RT

biochemistry biofeedback wildlife radiolocation  $\infty$  biology Originally confined to the presenting of a biological activity subject with sensory information about ongoing decay USE activity (biology) decomposition physiological activities, it now includes the deterioration controlling of specific physiological activities biological analysis through trained mental effort. USE bioassay biodiversity feedback GS USE biological diversity . biofeedback biological cells . . sensory feedback USE cells (biology) biodynamics aerospace medicine The study of the effects of dynamic biocontrol systems biological clocks processes (motion, acceleration, weightlessness, blood pressure USE rhythm (biology) etc.) on living organisms. Used for biomechanics. conditioning (learning) biomechanics control biological diversity RT anatomy feedback control (added June 1995) bioengineering The diversity of genes, species, and heart rate biological models (mathematics) ecosystems that make up the variety and human factors engineering  $\infty$  biology variability of life. psychology biophysics UF biodiversity ∞ dynamics bioflavonoids genetic diversity UF vitamin P bioassay stress (physiology) GS organic compounds biological evolution . cyclic compounds biosynthesis bioelectric potential . . heterocyclic compounds cytology potential energy . . . bioflavonoids deforestation . electric potential vitamins differentiation (biology) . . bioelectric potential . bioflavonoids gene expression bioelectricity RT drugs genetics ∞ biology mutations biogenesis bioelectricity protobiology USE biological evolution neuron transmission species diffusion RT bioelectric potential biogeny ∞ biology biological effects RT∞ biology biological effects biomagnetism ∞ evolution . desynchronization (biology) information processing (biology) ontogeny neuromuscular transmission . jet lag . relative biological effectiveness (RBE) spike potentials biogeochemistry RTactivity (biology) biochemistry GS bioengineering atrophy . biogeochemistry GS bioengineering bioassay environmental chemistry . bioinstrumentation biology . geochemistry . . biotelemetry biomedical data biogeochemistry . . implanted electrodes (biology) bone demineralization  $RT \, \infty \ biology$ . biometrics Bragg curve botany . . body measurement (biology) chemical effects  $\infty$  chemistry . . . anthropometry disorientation geobotany . . . electroplethysmography dosage International Geosphere-Biosphere . . cardiography ∞ effects program . . . ballistocardiography flight stress (biology) minerals . . . electrocardiography human reactions plants (botany) . . . magnetocardiography Orbiting Frog Otolith . . . phonocardiography pathological effects biography . . . echocardiography physiological effects GS literature . . . seismocardiography psychological effects . biography . . . vectorcardiography radiation dosage RT awards . . echoencephalography bibliographies radiation effects . . electroencephalography case histories space adaptation syndrome . . electromyography temperature documentation . . electronystagmography thermal pollution . . electroretinography bioinstrumentation . . plethysmography biological evolution UF biosensors . . . electroplethysmography bioengineering bioaenesis . . radiocardiography . bioinstrumentation GS evolution (development) bioacoustics . . biotelemetry . biological evolution bioastronautics . implanted electrodes (biology) . . abiogenesis biochemistry RT ∞ biology archaebacteria biological diversity biometrics biodynamics ∞ biology bionics ∞ biology echoencephalography chemical evolution bionics biopaks  $\infty$  engineering eukaryotes **IMBLMS** Gaia hypothesis biophysics ∞ instruments gene expression bone mineral content  $\infty$  engineering magnetocardiography genetics genetic engineering measuring instruments life sciences respirometers human factors engineering mutagens underwater breathing apparatus ∞ sensors mutations

sphygmography

voice control

panspermia

# biological models (mathematics)

prokaryotes botany biomass energy production protein synthesis carbon cycle energy conversion protobiology cells (biology) biomass energy production complement (biology) RTbioconversion biological models cytogenesis ∞ biology USE bionics cytology bioreactors differentiation (biology) ∞ crops biological models (mathematics) ecology ∞ energy sources Mathematical models for living systems. embryology energy technology GS models evolution (development) hydrocarbon fuel production . mathematical models exobiology manures . biological models (mathematics) fatigue (biology) methanation biodynamics RT flight stress (biology) vegetation  $\infty$  biology genetic engineering waste utilization bionics genetics digital simulation habitats biomechanics dynamic models immunology USE biodynamics implanted electrodes (biology) biological rhythm interferon USE rhythm (biology) biomedical data life sciences RT aerospace medicine  $\infty$  biology marine biology biological effects (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS medical science SN ∞ biology microbiology LISTED BELOW) biometrics molecular biology RT activation (biology) body measurement (biology) morphology activity (biology) cardiograms nitrogen metabolism activity cycles (biology)  $\infty$  data paleobiology aerobiology heart rate protobiology aerospace medicine IMBI MS radiobiology aging (biology) relative biological effectiveness (RBE) agriculture Biomedical Experiment Scientific Satellite reproduction (biology) anatomy rhythm (biology) USE BESS (satellite) animals ∞ science bacteriology skin temperature (biology) biometeorology bifurcation (biology) tissues (biology) UF bioclimatology bioacoustics veterinary medicine GS meteorology bioassay biometeorology bioastronautics bioluminescence RT∞ biology biochemical fuel cells GS emission coastal ecology biochemical oxygen demand . light emission coastal plains biochemistry ecology . . luminescence biocompatibility . . bioluminescence microclimatology biocontrol systems RT ∞ biology nightglow bioconversion phosphorescence phenology biodegradability biodegradation biomagnetism biodynamics biometrics Magnetic fields surrounding parts or the bioelectric potential bioengineering whole of a living biological system; also, the bioelectricity . biometrics effects of magnetism on parts or the whole of a . . body measurement (biology) bioengineering biological entity. biogeny . . . anthropometry GS magnetic fields biogeochemistry . . . electroplethysmography . biomagnetism bioinstrumentation . . cardiography magnetic properties biological effects . . . ballistocardiography . biomagnetism biological evolution electrocardiography RT bioelectricity biological models (mathematics) . . . magnetocardiography ∞ biology bioluminescence . . . phonocardiography biophysics biomagnetism . echocardiography electromagnetic fields . . . seismocardiography biomass electromagnetic interactions biomass energy production . . . vectorcardiography radiobiology . . echoencephalography biomedical data biometeorology . . electroencephalography biometrics . . electromyography . . electronystagmography bionics The dry weight of living matter in a given biophysics area expressed in terms of mass or weight per unit . . electroretinography bioreactors of volume or area. . . plethysmography . . . electroplethysmography biosatellites GS weight (mass) biosphere . biomass . . radiocardiography biosynthesis RT bioinstrumentation animals biotechnology  $\infty$  biology  $\infty$  biology biomedical data biotelemetry carbon cycle body composition (biology) density bone mineral content body measurement (biology) organisms  $\infty$  engineering body size (biology) plants (botany) Orbiting Frog Otolith body volume (biology) populations pupillometry bone demineralization statistical analysis silviculture bone mineral content  $\infty$  statistics

weight

#### bionics

DEF The study of systems, particularly electronic systems, which function after the manner characteristic of, or resembling living systems. Used for biological models and biosimulation.

UF biological models biosimulation artificial intelligence

> automata theory biocontrol systems bioengineering

bioinstrumentation

biological models (mathematics)

∞ biology

control systems design

cybernetics

human factors engineering man machine systems

neuristors

rheoelectrical simulation

robots simulation syncoders

systems engineering

### biopaks

GS support systems

. life support systems

# . biopaks

RT bioengineering

biosatellites

∞ containers

enclosures

portable life support systems

preserving

### biophysics

# biophysics

. health physics

. . public health

biodynamics

bioengineering

∞ biology

biomagnetism

∞ physics

∞ science

# biopolymer denaturation

denaturation (biopolymers) nucleic acid denaturation protein denaturation

biopolymers

molecular structure nucleic acids polymer chemistry

proteins

### biopolymers

#### GS biopolymers

- . nucleic acids
- . . deoxyribonucleic acid
- . . ribonucleic acids
- . proteins
- . . albumins
- . . aspartates
- . . calmodulin
- . . elastin
- enzymes
- . . . aldolase
- . . . amidase
- . . . carbonic anhydrase
- . . . catalase . . . cholinesterase
- . . . cytochromes
- . . . hexokinase
- . . . lysozyme

. . . nuclease

. . . oxidase

. . . papain . . . pepsin

. . . protease

. . . thrombin

. . . trypsin

. . fibrin . . globulins

. . . fibrinogen

. gamma globulin

. . hemoglobin

. . . carboxyhemoglobin

. . . oxyhemoglobin

. . keratins

. . lipoproteins

. . melanin

. . myoglobin

. . proteinoids . . prothrombin

. protoproteins

biopolymer denaturation

nucleotides

∞ polymers

polynucleotides polypeptides

## bioprocessing

aerospace environments

bioconversion biotechnology electrophoresis

microgravity

microgravity applications

pharmacology space processing

spaceborne experiments weightlessness

# bioreactors

DEF Biological processors to remove or produce certain chemicals or a particular chemical.

RT ∞ biology

biomass energy production

biotechnology

### bioregeneration

regeneration (physiology)

bioregenerative life support systems

closed ecological systems USE

### biorhythms USE

rhythm (biology)

# **BIOS** project

programs

. projects

. BIOS project

# Biosatellite 1

artificial satellites

. biosatellites

. Biosatellite 1

RT bioastronautics

### Biosatellite 2 GS

artificial satellites

. biosatellites

. . Biosatellite 2 bioastronautics

# Biosatellite 3

RT

GS artificial satellites

. biosatellites

. Biosatellite 3

RT ∞ astronautics bioastronautics

### biosatellites

(EXCLUDES MANNED SPACECRAFT) SN

Artificial satellites which are specifically designed to contain and support man, animals, or other living material in a reasonably normal manner for an adequate period of time and which, particularly for man and animals, posesses the proper means for safe return to the Earth.

GS artificial satellites

## . biosatellites

. . Biosatellite 1

. . Biosatellite 2

. . Biosatellite 3

. . Orbiting Frog Otolith

. . Sputnik 2 satellite RT aerospace environments

∞ biology

biopaks

environmental control

extraterrestrial life life detectors

life support systems manned spacecraft space capsules

∞ spacecraft

#### biosensors

bioinstrumentation USE

biosimulation

USE bionics

# biosphere

That transition zone between Earth and atmosphere within which most forms of terrestrial life are commonly found; the outer portion of the geosphere and inner or lower portion of the atmosphere.

 $RT \infty \ biology$ 

chemosphere Earth hydrosphere free atmosphere Gaia hypothesis

homosphere International Geosphere-Biosphere

program lower atmosphere

biosynthesis biological diversity RT

 $\infty \ \ \text{biology}$ 

chemical reactions

genetic engineering metabolites

prostaglandins

∞ synthesis synthetic food

**Biot method** RT calculus of variations

∞ methodology

Biot number DEF A standard heat transfer dimensionless number.

dimensionless numbers GS

. Biot number

ratios

. Biot number

heat transfer ∞ numbers

# biotechnology

The application of engineering and technological principles to the life sciences.

GS technologies

. biotechnology artificial cardiac pacemaker RT

artificial heart valves  $\infty$  biology bioprocessing bioreactors blood pumps cloning (biology) heart implantation man machine systems

### biotelemetry

The remote sensing and evaluation of life functions, as, e.g., in spacecraft and artificial satellites. Used for physiological telemetry.

physiological telemetry bioengineering . bioinstrumentation . . biotelemetry telecommunication

. telemetry

. . biotelemetry transmission

. signal transmission

. . telemetry . . biotelemetry

RT∞ biology

communication equipment

 $\infty$  engineering Orbiting Frog Otolith pneumography telemedicine wildlife radiolocation

# biotin

vitamin B complex UF GS organic compounds . cyclic compounds . . heterocyclic compounds . . . biotin

vitamins . biotin drugs

# RT biotite

A widely distributed and important rock-forming mineral of the mica group. Used for kimberlite.

UF kimberlite GS minerals . mica . . biotite

biphase shift keying

USE binary phase shift keying

# biplanes

biplanes . AN-2 aircraft RT∞ aircraft

dual wing configurations light aircraft

> monoplanes tandem wing aircraft utility aircraft

# bipolar transistors

electronic equipment . solid state devices

. . semiconductor devices

. . . transistors

. . . . bipolar transistors

bipolarity carrier injection epitaxy majority carriers minority carriers n-p-n junctions semiconductors (materials)

### bipolarity

Capability of assuming negative or positive values.

bipolar transistors  $\infty$  polarization

bipropellants

USE liquid rocket propellants

### bird-aircraft collisions

GS accidents

. aircraft accidents

. . bird-aircraft collisions

collisions

. midair collisions

. . bird-aircraft collisions

RT ∞ aircraft aircraft hazards birds

flight hazards ingestion (engines)

### birds

animals

. vertebrates . . birds

. . . chickens

. . . pigeons . . . turkeys . . . waterfowl

aircraft hazards bird-aircraft collisions Earth resources

> endangered species flight hazards homeotherms plumage wildlife

### birefringence

A double-refraction phenomenon in which an unpolarized beam of light is divided into two beams with different directions and relative velocities of propagation. The amount of energy transmitted along an optical path through a crystal which exhibits birefringence and is a function of crystalline orientation. Used for Pockels effect.

Pockels effect UF GS electromagnetic properties

. optical properties birefringence

. . . Kerr electrooptical effect

refraction

. birefringence

. . Kerr electrooptical effect anisotropic media

anisotropy birefringent coatings birefringent filters calcite electro-optics

Moire effects nonlinear optics photoelasticity polarization (waves) reflectance

refractivity

temperature inversions

Voigt effect

# birefringent coatings

GS coatings

. birefringent coatings

anisotropic media birefringence birefringent filters refractivity

### birefringent filters

electromagnetic wave filters

. optical filters

. birefringent filters

birefringence birefringent coatings

 $\infty$  filters

optical properties refractivity

## **Birkeland currents**

(added May 1989)

GS electric current

. field aligned currents

. . Birkeland currents

. ionospheric currents

. . Birkeland currents electricity

. atmospheric electricity

. . ionospheric currents

. . . Birkeland currents

auroral electroiets

auroral zones electrojets aeomaanetism

ionospheric disturbances magnetic disturbances magnetic storms

### birth RT

fertilization fetuses pregnancy reproduction (biology) reproductive systems

### bismaleimide

nitrogen compounds . amides

. . polyimides

. . . bismaleimide

. imides

. . bismaleimide

matrix materials polyimide resins polymer matrix composites resin matrix composites resins

## bismuth

RT

GS chemical elements

. bismuth

. . bismuth isotopes metals

. bismuth

. . bismuth isotopes

bismuth 205

USE bismuth isotopes

# bismuth alloys

GS alloys

. bismuth alloys

antimony alloys eutectic alloys magnesium alloys tin alloys

## bismuth compounds

bismuth compounds

. bismuth oxides

. bismuth sulfides

. bismuth tellurides RT∞ chemical compounds

Group 5A compounds

∞ metal compounds

bismuth isotopes

bismuth 205

GS chemical elements

. bismuth

. . bismuth isotopes

. nuclides . . isotopes

... bismuth isotopes

metals . bismuth

. . bismuth isotopes

bismuth oxides

bismuth compounds

. bismuth oxides chalcogenides

. oxides

. . metal oxides

... bismuth oxides

BSCCO superconductors

bismuth sulfides

bismuth compounds GS

bismuth sulfides chalcogenides

. sulfides

. . inorganic sulfides

. . . bismuth sulfides

sulfur compounds

. sulfides

. . inorganic sulfides

. . . bismuth sulfides

bismuth tellurides

bismuth compounds

. bismuth tellurides chalcogenides

. tellurides

. . bismuth tellurides

tellurium compounds

. tellurides

. . bismuth tellurides

bisphenols

hydroxyl compounds GS

. alcohols

. . phenols

. . . bisphenols

bistable amplifiers

USE flip-flops

bistable circuits

circuits GS

. bistable circuits

. . flip-flops

RT digital techniques multivibrators trigger circuits

bistatic radar

multistatic radar USE

bistatic reflectivity

The characteristic of a reflector which reflects energy along a line, or lines, different from, or in addition to, that of the incident ray.

brightness incident radiation reflectance scattering

bit error rate

The number of erroneous bits or characters received from some fixed number of bits transmitted.

GS rates (per time)

. bit error rate

binary codes

binary data binary digits bit synchronization

error analysis

error correcting codes error detection codes

error signals

pulse communication Reed-Solomon codes signal to noise ratios transmission efficiency

transmission rate (communications)

bit synchronization

synchronism

bit synchronization

bit error rate

frequency synchronization

biternary code

 $RT \, \infty \ codes$ 

differential pulse code modulation

digital systems

pulse code modulation

bits

binary digits bit error rate drill bits

bitumens

Dark-colored (solid, semisolid, or DEF viscous) cementitious substances, natural or manufactured, composed principally of high molecular weight hydrocarbons, of which asphalts, tars, pitches, and asphaltenes are typical.

RT carbon coal coke

∞ construction materials

lianite  $\infty$  materials

solvent refined coal

bivariate analysis

statistical analysis GS

. variance (statistics)

. . multivariate statistical analysis

. . . bivariate analysis

correlation

BL Lacertae objects

One of a class of astronomical objects exhibiting; (1) rapid variations in intensity at radio, infrared, and optical wavelengths; (2) energy distributions largely at infrared wavelengths; (3) absence of discrete features in low dispersion spectra; and (4) strong and rapidly varying polarization at visual and radio wavelengths.

celestial bodies GS

. blazars

. . BL Lacertae objects

radio sources (astronomy)

extragalactic radio sources galaxies irregular galaxies luminous intensity polarization (waves) radiant flux density

black and white photography

GS imagery

. photography

black and white photography

all sky photography astronomical photography autoradiography

chronophotography cinematography cloud photography color photography electron photography electro-optical photography frame photography infrared photography lunar photography photomicrography photoreconnaissance

satellite-borne photography Schlieren photography shadowgraph photography spaceborne photography spectroheliographs spectrophotography stereophotography ultraviolet photometry urography

radar photography

rocket-borne photography

Black Arrow launch vehicle

USE Black Knight rocket vehicle

black body radiation

DEF The electromagnetic radiation emitted by an ideal black body; it is the theoretical maximum amount of radiant energy of all wavelengths which can be emitted by a body at a given temperature.

GS electromagnetic radiation

. thermal radiation

. . black body radiation

brightness distribution brightness temperature emissivity heat radiators hohlraums infrared radiation

> Kirchhoff law of radiation light (visible radiation) nongray atmospheres nongray gas

Plancks constant radiance  $\infty$  radiation sunlight

ultraviolet radiation

Black Brant 1 sounding rocket

rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

... Black Brant 1 sounding rocket . sounding rockets

. . Black Brant sounding rockets

. . Black Brant 1 sounding rocket

solid propellant rocket engines

Black Brant 2 sounding rocket

rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

... Black Brant 2 sounding rocket

. sounding rockets

. . Black Brant sounding rockets

. . . Black Brant 2 sounding rocket solid propellant rocket engines

Black Brant 3 sounding rocket

rocket vehicles

. single stage rocket vehicles

. . Black Brant sounding rockets

. . . Black Brant 3 sounding rocket

. sounding rockets

. . Black Brant sounding rockets

. . . Black Brant 3 sounding rocket Black Sea blade slap noise solid propellant rocket engines Bulgaria Impulsive noise (short high pressure Romania sound waves) of rotating blades, primarily Black Brant 4 sounding rocket Turkey helicopter blades. Used for helicopter impulsive GS rocket vehicles U.S.S.R. noise. . single stage rocket vehicles UF helicopter impulsive noise . . Black Brant sounding rockets Blackbird aircraft GS elastic waves ... Black Brant 4 sounding rocket SR-71 aircraft . sound waves . sounding rockets . . noise (sound) . . Black Brant sounding rockets Blackburn B-103 aircraft . . . aerodynamic noise . . . Black Brant 4 sounding rocket USE **Buccaneer aircraft** . . . . blade slap noise RT solid propellant rocket engines . . . aircraft noise . . . blade slap noise Black Brant 5 sounding rocket SN (USE OF A MORE SPECIFIC TERM IS RT blade tips rocket vehicles RECOMMENDED—CONSULT THE TERMS blade-vortex interaction LISTED BELOW) . single stage rocket vehicles helicopters blackout (physiology) . . Black Brant sounding rockets propeller noise blackout (propagation) . . . Black Brant 5 sounding rocket . sounding rockets blade tips blackout (physiology) . . Black Brant sounding rockets GS tips GS syncope . . . Black Brant 5 sounding rocket blade tips . blackout (physiology) solid propellant rocket engines airfoil profiles . . blackout prevention blade slap noise unconsciousness **Black Brant sounding rockets** blade-vortex interaction . blackout (physiology) rocket vehicles GS propeller blades . . blackout prevention . single stage rocket vehicles rotary wings acceleration tolerance . . Black Brant sounding rockets rotor blades (turbomachinery) . . . Black Brant 1 sounding rocket wing tips ∞ coma . . . Black Brant 2 sounding rocket . . . Black Brant 3 sounding rocket blade-vortex interaction blackout (propagation) . . . Black Brant 4 sounding rocket UF blade slap UF ionospheric blackout . . . Black Brant 5 sounding rocket vortex-blade interaction electromagnetic interference RT . sounding rockets airfoils . radio frequency interference . . Black Brant sounding rockets blade slap noise . . blackout (propagation) . . . Black Brant 1 sounding rocket blade tips . . . polar radio blackout . . . Black Brant 2 sounding rocket helicopters RT atmospherics . . . Black Brant 3 sounding rocket interactional aerodynamics ∞ blackout  $\infty$  interactions . . . Black Brant 4 sounding rocket electromagnetic fields . . . Black Brant 5 sounding rocket rotary wings electromagnetic noise RT solid propellant rocket engines vortices ionospheric disturbances wing tip vortices plasma sheaths Black Hawk assault helicopter plasmas (physics) H-60 Helicopter  $\infty$  blades radiation effects SN (USE OF A MORE SPECIFIC TERM IS Black Hills (SD-WY) radio communication RECOMMENDED—CONSULT THE TERMS reentry communication LISTED BELOW) GS landforms Arms of propeller and rotating wings. reentry effects . mountains Specifically, restrictive, those parts of propellers or . . Black Hills (SD-WY) solar activity effects of rotating wings from the shank outward, i.e., x rays RT South Dakota those parts having efficient airfoil shapes and that Wyoming cleave the air. Vanes such as rotating vanes or blackout prevention stationary vanes in rotary air compressors, or GS human performance black holes (astronomy) vanes of turbine wheels. . astronaut performance GS celestial bodies RT airfoils . stars . . blackout prevention blades (cutters) . pilot performance . . black holes (astronomy) compressor blades RT accretion disks . . blackout prevention degenerate matter fins syncope hydrofoils . blackout (physiology) event horizon propeller blades gravitational collapse . . blackout prevention rims gravitational lenses unconsciousness rotary wings massive stars . blackout (physiology) rotor blades (turbomachinery) . . blackout prevention naked singularities stator blades Reissner-Nordstrom solution RT acceleration tolerance turbine blades supernova remnants ∞ coma weightlessness turbomachine blades white holes (astronomy) vanes x ray binaries bladder blades (cutters) Black Knight rocket vehicle GS anatomy GS cutters Black Arrow launch vehicle . genitourinary system . blades (cutters) rocket vehicles . . bladder . . razor blades . multistage rocket vehicles prostate gland RT∞ blades

urology

diaphragms (mechanics)

blade-vortex interaction

bladders (mechanics)

USE

USE

blade slap

∞ blankets

(USE OF A MORE SPECIFIC TERM IS

LISTED BELOW)

bedding equipment

blankets (fission reactors)

RECOMMENDED—CONSULT THE TERMS

RT

Black Sea

seas

GS

. . Black Knight rocket vehicle

. . Black Knight rocket vehicle

liquid propellant rocket engines

. single stage rocket vehicles

blankets (fusion reactors) blast deflectors blends USE cloud cover baffles mixtures controlled atmospheres diverters blight solar blankets flame deflectors GS plant diseases shielding . blight blankets (fission reactors) blast loads RT alfalfa Damper materials for fission reactors. GS aerodynamic forces bacteria RT∞ blankets . aerodynamic loads barley . . blast loads fission botany loads (forces) citrus trees reactor design . dynamic loads reactor materials corn . . aerodvnamic loads crop growth ... blast loads blankets (fusion reactors) crop vigor . . transient loads DEF Damper materials for fusion reactors. fungi . . . shock loads RT∞ blankets orchards . . . . blast loads fusion reactors parasites aerial explosions limiters (fusion reactors) parasitic diseases dynamic pressure plants (botany) moderators explosions reactor design rhizopus reactor materials gust loads rust fungi impact loads vineyards  $\infty$  blanking overpressure blind landing (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) pressure GS landing pressure pulses . blind landing Riemann waves blanking (cutting) aircraft landing RT shock waves forming techniques approach indicators wave resistance stamping automatic landing control blastoff instrument approach blanking (cutting) USE rocket launching instrument flight rules GS cutting instrument landing systems . blanking (cutting) landing instruments (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) forming techniques night flights (aircraft) . pressing (forming) blanking (cutting) blindness exhaust gases RT∞ blanking GS blindness explosions laser cutting . flash blindness jet blast effects shearing RT braille shock waves stamping disabilities sound waves eve diseases blanks optometry Blattidae RT ammunition USE cockroaches vision briquets forms (paper) blazars blinds preforms (added December 1988) shielding RT Strongly optical polarized active galactic  $\infty$  shutters Blasius equation nuclei objects exhibiting BL Lacertae-like and GS analysis (mathematics) quasar-like characteristics. blinking . real variables RT astronomical photometry GS celestial bodies . . differential equations display devices . blazars . . . Blasius equation eye movements . . BL Lacertae objects flow equations visual perception accretion disks . boundary layer equations active galactic nuclei . . Blasius equation active galaxies (USE OF A MORE SPECIFIC TERM IS RT boundary layer flow disk galaxies RECOMMENDED—CONSULT THE TERMS LISTED BELOW) ∞ equations extragalactic radio sources Falkner-Skan equation infrared astronomy infectious diseases flat plates quasars iniuries Prandtl-Meyer expansion radio galaxies mucoceles radio sources (astronomy) protuberances Blasius flow Seyfert galaxies rupturing GS fluid flow skin (anatomy) bleaching . laminar flow viruses . . Blasius flow chlorination . uniform flow cleaning **Bloch band** . Blasius flow fading GS energy bands flat plates . Bloch band bleed-off head flow  $RT \infty$  bands USE pressure reduction Tollmien-Schlichting waves superconductivity turbulent flow block copolymers two dimensional flow (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS SN (added January 1990) wedge flow copolymers LISTED BELOW) boundary layer control blast deflectors RT . block copolymers DEF Devices used to divert the exhaust of a fluid mechanics copolymerization polybutadiene rocket fired from a vertical position. hemorrhages

pressure reduction

GS

deflectors

 $\infty$  polymers

# block diagrams

	polystyrene		hemorrhages		hematocrit
			hypercapnia		hemoperfusion
block d	iagrams		hypocapnia		systole
GS	diagrams		oximetry		
	. block diagrams		•		tourniquets
RT	charts		Rhesus factor	blood	arouno
IXI			transfusion		groups
	computer programming			RT	blood
	computer programs	blood o	ells		platelets
	flow charts	UF	corpuscles (blood)		
	research management	GS	cells (biology)	blood	plasma
	systems analysis	00	. blood cells	RT	blood
	Systems analysis				blood cells
Block Is	sland Sound (RI)		erythrocytes		body fluids
	• •		reticulocytes		
GS	sounds (topographic features)		hemocytes		electrolyte metabolism
	. Block Island Sound (RI)		leukocytes		hematocrit
RT	Atlantic Ocean		•		
	Rhode Island		eosinophils	blood	pressure
			lymphocytes	GS	pressure
blocking		RT	anemias		. blood pressure
UF			blood		-
	obstructing		blood plasma		. diastolic pressure
KI∞	arresters		hematopoiesis		hypertension
	closing		15		hypotension
	closures		hematopoietic system		lower body negative pressure
	constraints		hemoglobin		systolic pressure
	constrictions			RT	biofeedback
		blood o	rculation	IXI	
	containment	GS	circulation		blood
	plugging		. blood circulation		diastole
	plugs				heart function
	prevention		brain circulation		hemodynamic responses
	•		coronary circulation		
	retarders (devices)		intercranial circulation		hemoperfusion
	retarding		ocular circulation		manometers
	sealing				ophthalmodynamometry
	seals (stoppers)		peripheral circulation		orthostatic tolerance
	stopping		pulmonary circulation		sphygmography
	stopping	RT	artificial cardiac pacemaker		
hlocks			artificial heart valves		systole
blocks			blood	C	o tension
RT	cubes (mathematics)				
	pulleys		blood-brain barrier	blood	pumps
	slabs		carboxyhemoglobin	GS	medical equipment
			circulatory system		. blood pumps
bloedite	1		cyanosis		
DEF	A mineral consisting of hydrous sodium		diastole		pumps
	- · · · · · · · · · · · · · · · · · · ·				. blood pumps
•	sium sulfate that is colorless. Also known		electroplethysmography	RT	artificial heart valves
as astra	kanite or astrochanite.		heart function		biotechnology
GS	minerals		heart implantation		blood
	. bloedite		hematocrit		
RT	magnesium sulfates		hemodynamic responses		circulatory system
111					heart
	sodium compounds		hemodynamics		pulmonary circulation
	sulfur compounds		hypervolemia		
			hypovolemia	blood	vessels
blood			intravascular system	GS	anatomy
GS	body fluids		ischemia	-	. circulatory system
	. blood				
	fibrin		phonoarteriography		cardiovascular system
			physiology		blood vessels
	fibrinogen		rheoencephalography		arteries
	thrombin		rheometers		aorta
	thromboplastin		tourniquets		capillaries (anatomy)
RT	anemias		tournquets		
			1.4		glomerulus
	biocompatibility		oagulation		veins
	blood cells	GS	coagulation	RT	bifurcation (biology)
	blood circulation		. blood coagulation		blood
	blood coagulation	RT	blood		carotid sinus body
	blood flow	• • • • • • • • • • • • • • • • • • • •	clotting		•
			•		carotid sinus reflex
	blood groups		fibrin		catheterization
	blood plasma		hemostatics		embolisms
	blood pressure		myocardial infarction		endothelium
	blood pumps		platelets		fat embolisms
	blood vessels		thrombin		
					vasoconstriction
	blood volume		thrombocytes		vasodilation
	blood-brain barrier		thromboplastin	c	o vessels
	capillaries (anatomy)		thrombosis		
	carboxyhemoglobin test			blood	volume
	cardiovascular system	blood f	low	RT	blood
	· · · · · · · · · · · · · · · · · · ·		fluid flow	IXI	
	coagulation	GS			cardiac output
	heart		. blood flow		cardiovascular system
	hematocrit	RT	blood		chronic conditions
	hematopoiesis		capillary flow		clinical medicine
	hemoglobin		diastole		hematocrit
			4.401010		Homatoont

hematopoietic system upper surface blown flaps . . intermediate range ballistic missiles wind (meteorology) hemodynamics . . . Blue Streak missile hypervolemia . surface to surface missiles blown flaps hypovolemia . . intermediate range ballistic missiles USE externally blown flaps stroke volume . . . Blue Streak missile rocket vehicles blowoff (combustion) blood-brain barrier . Blue Streak missile USE flameout DEF A mechanism which maintains the RT liquid propellant rocket engines constancy of the neurons in the central nervous blowouts system by preventing certain substances from blueprints RT fatique life leaving the bloodstream and entering the neural GS documents tires tissue. . drawings RT∞ barriers . . engineering drawings Blue Goose missile blood decoys . . blueprints blood circulation . Blue Goose missile layouts central nervous system reproduction (copying) missiles neurons . surface to air missiles bluff bodies . Blue Goose missile blowdown wind tunnels Bodies having a broad, flattened front, booster rocket engines DFF GS test facilities as in some reentry vehicles. countermeasures . wind tunnels blunt bodies RT J-85 engine . . blowdown wind tunnels solid propellant rocket engines  $\infty$  bodies hotshot wind tunnels ducted bodies hypersonic wind tunnels blue green algae forebodies hypervelocity wind tunnels Cyanophyta UF lifting bodies low density research GS plants (botany) reentry vehicles low speed wind tunnels . algae Roshko prediction . . blue green algae subsonic wind tunnels supersonic wind tunnels . . . anabaena bluffs (landforms) transonic wind tunnels . . . Microcvstis USE cliffs . . . Nostoc blowers . thermophilic plants blunt bodies RT air conditioning . . blue green algae RT aerodynamic configurations air conditioning equipment . . . anabaena aerodynamics air ducts . . . Microcystis axisymmetric bodies blowing . . . Nostoc bluff bodies centrifugal compressors ∞ bodies Blue Scout rocket vehicle compressors ducted bodies launch vehicles cooling systems forebodies . Blue Scout rocket vehicle ducted fans missile bodies rocket vehicles exhaust systems nose cones . multistage rocket vehicles ∞ fans power law bodies . . Blue Scout rocket vehicle impellers stagnation point Algol engine injectors symmetrical bodies solid propellant rocket engines materials handling X-248 engine mixers blunt leading edges ∞ nozzles X-254 engine DFF The obtuse cross sections of certain XM-33 engine refrigerating machinery front edges of airfoils or wings. sealing edges blue stars sprayers . leading edges Stars of spectral type O, B, A, or F superchargers . . blunt leading edges according to the Draper catalog. turbomachinery RT airfoils celestial bodies ventilation forebodies stars ventilation fans trailing edges . . early stars ventilators . . . hot stars blunt trailing edges . . . blue stars blowing The rounded or obtuse angled trailing A stars blowing edges of wings and/or control surfaces designed B stars . spanwise blowing to enhance aerodynamic characteristics. F stars . tangential blowing GS edaes O stars . under surface blowing . trailing edges . upper surface blowing . . blunt trailing edges Blue Steel missile RT aeration RT airfoils GS missiles agitation control surfaces Blue Steel missile blowers wings RT liquid propellant rocket engines boundary layer control circulation blurring Blue Streak launch vehicle circulation control airfoils RT aberration GS launch vehicles compressing resolution . Blue Streak launch vehicle entrainment spatial filtering rocket vehicles exhausting . Blue Streak launch vehicle

Eldo launch vehicle

. ballistic missiles

Blue Streak missile

missiles

liquid propellant rocket engines

**BMC** 

USE

**BMEWS** 

USE

bone mineral content

System

**Ballistic Missile Early Warning** 

externally blown flaps

forced convection

injection

spraying

mixing

∞ pumping

BO-105 helicopter towed bodies mineral metabolism Bolkow aircraft two dimensional bodies obesity . BO-105 helicopter perspiration passenger aircraft bodies of revolution secretions . BO-105 helicopter Symmetrical bodies having the form water described by rotating a plane curve about an axis utility aircraft water balance BO-105 helicopter in its plane. body kinematics symmetrical bodies V/STOL aircraft kinematics . bodies of revolution GS . rotary wing aircraft . . conical bodies body kinematics . . helicopters acceleration (physics) . . . military helicopters . . . slender cones acceleration stresses (physiology) .... BO-105 helicopter . . cylindrical bodies . . . rotating cylinders kinetics particle theory boards (paper) . . parabolic bodies UF fiberboard . . power law bodies velocity RT∞ construction materials . . spheres body measurement (biology) paper (material) . . . celestial sphere (LIMITED TO BIOLOGICAL papers . . . concentric spheres APPLICATIONS—FOR MEASUREMENT OF NON-BIOLOGICAL BODIES USE SIZE DETERMINATION) . . . falling spheres boats . . . Poincare spheres GS surface vehicles ... rotating spheres bioengineering . boats . biometrics . . toruses . . lifeboats .. body measurement (biology) aerodynamic configurations water vehicles aerodynamics . . . anthropometry . boats axes of rotation . . . electroplethysmography . . lifeboats RT∞ biology axisymmetric bodies amphibious vehicles bodies biomedical data harbors electrocardiography cones inflatable structures electroencephalography disks (shapes) keels electrophysiology ellipsoids ∞ military vehicles finned bodies ∞ engineering research vehicles human body geometry ships human factors engineering underwater vehicles obesity hemispherical shells ogives size determination boattails  $\infty$  sizing The rear portions of elongated bodies, spherical shells as in rockets, having decreasing cross-sectional body size (biology) streamlined bodies area toward the rear. RT anthropometry RT afterbodies body centered cubic lattices ∞ biology skirts BCC lattices obesity tail assemblies crystal lattices GS body sway test . cubic lattices BOD GS physiological tests . . body centered cubic lattices USE biochemical oxygen demand body sway test close packed lattices  $RT\infty \ equilibrium$ cluster variation method ∞ bodies head down tilt crystals (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS SN vertical perception face centered cubic lattices vestibular tests LISTED BELOW) RT afterbodies body composition (biology) body temperature axisymmetric bodies composition (property) (LIMITED TO TEMPERATURE OF BIOLOGICAL BODIES) SN bluff bodies . body composition (biology) blunt bodies  $RT \infty$  biology GS temperature bodies of revolution chemical composition . body temperature celestial bodies exoskeletons RT cold tolerance centerbodies fever ducted bodies body fluids heat acclimatization elastic bodies body fluids heat stroke finned bodies . blood heat tolerance flexible bodies . . fibrin homeostasis foreign bodies . . fibrinogen homeotherms . . thrombin Herbig-Haro objects humidity human body . . thromboplastin hyperthermia lenticular bodies . cerebrospinal fluid hypothermia lifting bodies . endolymph perspiration maneuverable reentry bodies . lymph poikilothermia missile bodies . mucus shivering planforms . saliva thermoreceptors plastic bodies sweat thermoregulation pyramidal bodies . urine vasoconstriction reentry vehicles blood plasma vasodilation rotating bodies diuresis slender bodies edema body temperature (non-biological) electrolyte metabolism solids USE temperature streamlined bodies fluids symmetrical bodies isotonicity body temperature regulation

lysozyme

USE

thermoregulation

three dimensional bodies

### body volume (biology)

volume

body volume (biology)

RT∞ biology obesity

## body weight

GS weight (mass) . body weight obesity

weightlessness

### body-wing and tail configurations

aerodynamic configurations

. body-wing and tail configurations

RT ∞ configurations fuselages tail assemblies wings

### body-wing configurations

aerodynamic configurations GS

. body-wing configurations

RT

drooped airfoils GAW-2 airfoil wings

### Boeing 2707 aircraft

Boeing aircraft

. Boeing 2707 aircraft

commercial aircraft

. supersonic commercial air transport

. . Boeing 2707 aircraft

jet aircraft

. Boeing 2707 aircraft

passenger aircraft

Boeing 2707 aircraft

supersonic aircraft

. supersonic transports

. . supersonic commercial air transport

. . . Boeing 2707 aircraft

transport aircraft

. Boeing 2707 aircraft

RT∞ aircraft

# Boeing 707 aircraft

Boeing aircraft

. Boeing 707 aircraft commercial aircraft

Boeing 707 aircraft

jet aircraft

. turbofan aircraft

. . Boeing 707 aircraft

monoplanes

. Boeing 707 aircraft

passenger aircraft Boeing 707 aircraft

transport aircraft

. Boeing 707 aircraft

 $\text{RT}_{\infty} \ \text{aircraft}$ 

# Boeing 720 aircraft

Boeing aircraft

. Boeing 720 aircraft commercial aircraft

. Boeing 720 aircraft

jet aircraft

. turbofan aircraft

.. Boeing 720 aircraft monoplanes

. Boeing 720 aircraft passenger aircraft

Boeing 720 aircraft transport aircraft

. Boeing 720 aircraft

 $RT \, \infty \ \, \text{aircraft}$ 

### Boeing 727 aircraft

Boeing aircraft

. Boeing 727 aircraft commercial aircraft

. Boeing 727 aircraft jet aircraft

. turbofan aircraft

. . Boeing 727 aircraft passenger aircraft

Boeing 727 aircraft transport aircraft

. Boeing 727 aircraft

 $RT \, \infty \ aircraft$ cargo aircraft

# Boeing 733 aircraft

Boeing aircraft

. Boeing 733 aircraft commercial aircraft

Boeing 733 aircraft jet aircraft

. turbofan aircraft

... Boeing 733 aircraft monoplanes

Boeing 733 aircraft supersonic aircraft

. Boeing 733 aircraft

transport aircraft

. Boeing 733 aircraft

RT ∞ aircraft variable sweep wings

# Boeing 737 aircraft

Boeing aircraft

. Boeing 737 aircraft commercial aircraft

Boeing 737 aircraft iet aircraft

. turbofan aircraft

. . Boeing 737 aircraft monoplanes

Boeing 737 aircraft passenger aircraft

Boeing 737 aircraft transport aircraft

. Boeing 737 aircraft

RT∞ aircraft cargo aircraft

# Boeing 747 aircraft

Boeing aircraft

. Boeing 747 aircraft commercial aircraft

. Boeing 747 aircraft iet aircraft

Boeing 747 aircraft passenger aircraft

Boeing 747 aircraft transport aircraft

Boeing 747 aircraft

 $RT \, \infty \ aircraft$ 

SOFIA (airborne observatory)

turbofan engines

X-34 reusable launch vehicle

Boeing 747B aircraft

USE E-4A aircraft

# Boeing 757 aircraft

Boeing's twin turbofan short/medium range transport aircraft that made its first flight on February 19, 1982.

Boeing aircraft GS

. Boeing 757 aircraft commercial aircraft

Boeing 757 aircraft

jet aircraft

. turbofan aircraft

. . Boeing 757 aircraft

monoplanes

. Boeing 757 aircraft

passenger aircraft

Boeing 757 aircraft transport aircraft

. Boeing 757 aircraft

 $RT \, \infty \ aircraft$ 

### Boeing 767 aircraft

DEF Boeing's widebodied medium range commercial transport aircraft that made its first flight on September 26, 1981.

Boeing aircraft

. Boeing 767 aircraft commercial aircraft

Boeing 767 aircraft

jet aircraft

. turbofan aircraft

. . Boeing 767 aircraft

monoplanes

. Boeing 767 aircraft passenger aircraft

. Boeing 767 aircraft transport aircraft

. Boeing 767 aircraft

 $RT \, \infty \ aircraft$ cargo aircraft turbofan engines

# Boeing 777 aircraft

(added September 1994)

Boeing aircraft

. Boeing 777 aircraft commercial aircraft

. Boeing 777 aircraft

jet aircraft

. Boeing 777 aircraft

passenger aircraft

Boeing 777 aircraft transport aircraft

. Boeing 777 aircraft

RT ∞ aircraft

# **Boeing aircraft**

Vertol military helicopters

#### GS Boeing aircraft

. B-47 aircraft

. B-50 aircraft

. B-52 aircraft

. Boeing 707 aircraft

Boeing 720 aircraft Boeing 727 aircraft

Boeing 733 aircraft

Boeing 737 aircraft

. Boeing 747 aircraft

. Boeing 757 aircraft

. Boeing 767 aircraft

. Boeing 777 aircraft

. Boeing 2707 aircraft . C-135 aircraft

. CH-21 helicopter

. CH-46 helicopter . CH-47 helicopter

. CH-62 helicopter

. E-3A aircraft . E-4A aircraft

. H-25 helicopter . V-22 aircraft

. VZ-2 aircraft . X-20 aircraft

 $RT \infty$  aircraft

AWACS aircraft

YC-14 aircraft

# Bogoliubov theory

Bogoliubov theory . . . Cyrillid meteoroids bolts BBGKY hierarchy atmospheric entry GS fasteners  $\infty$  theories atmospheric heating . bolts fireballs . . rock bolts meteor trails . . tiebolts boas USE marshlands meteorites RT anchors (fasteners) meteoroid showers bolted joints Bohr magneton Pribram meteorite couplings A constant equivalent to the magnetic holders moment of an electron. Bolivia nuts (fasteners) nations constants GS screws Bolivia . Bohr magneton studs (structural members) electrons RT South America threads magnetic moments **Bolkow aircraft** Boltzmann distribution **Bolkow** aircraft GS distribution (property) Bohr theory . BO-105 helicopter theoretical physics . Boltzmann distribution GS RT ∞ aircraft . quantum theory atmospheric density . . Bohr theory atmospheric diffusion boll weevils RT electron transitions kinetic theory animals GS line spectra statistical mechanics . invertebrates two fluid models ∞ theories . . arthropods . . . insects **Boltzmann transport equation** boiler plate . . . . Coleoptera **BBGKY** hierarchy structural members GS . . . . boll weevils BGK model . plates (structural members) bollworms Burnett equations . . metal plates cotton Chapman-Enskog theory . . boiler plate infestation  $\infty$  equations RT thick walls Fokker-Planck equation bollworms hydrodynamic equations boilers GS animals kinetic theory UF steam generators . invertebrates particle diffusion GS heating equipment . . arthropods boilers statistical mechanics . . . insects transport properties RT external combustion engines . . . . bollworms transport theory furnaces larvae  $\infty$  generators bollworms Boltzmann-Vlasov equation heat balance boll weevils RT ∞ equations pressure vessels corn high temperature plasmas steam cotton Maxwell equation vaporizers fruits partial differential equations waste energy utilization infestation wave equations moths boiling Bolza problems UF ebullition bolograms optimization phase transformations GS USE bolometers  $\infty$  problems . vaporizing . . boiling **bolometers BOMARC A missile** . . . film boiling Instruments which measure the intensity GS missiles . . . nucleate boiling of radiant energy by employing thermally sensitive . antiaircraft missiles . . . Leidenfrost phenomenon electrical resistors; a type of actinometer. Used for . . BOMARC missiles effervescence bolograms. ... BOMARC A missile evaporation UF bolograms . surface to air missiles evolution (liberation) measuring instruments GS . . BOMARC missiles heat transfer . radiation measuring instruments . . BOMARC A missile heating . bolometers liquid propellant rocket engines RT Dicke radiometers solid propellant rocket engines boiling water reactors electrical measurement GS nuclear reactors **BOMARC B missile** heat measurement . liquid cooled reactors infrared detectors missiles GS . . water cooled reactors photometers . antiaircraft missiles . . . boiling water reactors potentiometers (instruments) . . BOMARC missiles . . . . experimental boiling water . . . BOMARC B missile radiation pyrometers reactors radiometers . surface to air missiles . . . . Halden Boiling Water Reactor . . BOMARC missiles resistance thermometers . . . . Los Alamos Water Boiler Reactor temperature measurement . . BOMARC B missile . . . . Pathfinder nuclear reactor temperature measuring instruments liquid propellant rocket engines . . . . Spert reactors solid propellant rocket engines x ray detectors nuclear power reactors nuclear research and test reactors bolted joints **BOMARC** missiles Joints fastened with bolts. They are missiles . antiaircraft missiles bolides usually designed for heavy loads. DEF Brilliant meteors, especially ones which joints (junctions) . . BOMARC missiles explode; detonating fireballs. . . . BOMARC A missile bolted joints celestial bodies RT bolts . . . BOMARC B missile . meteoroids lap joints . surface to air missiles

riveted joints

. . BOMARC missiles

. . bolides

... BOMARC A missile bombs (ordnance) cohesion ... BOMARC B missile Explosive devices designed to be cold welding detonated under specified conditions. debonding (materials) explosive devices diffusion welding bomb calorimeters bombs (ordnance) ∞ joining measuring instruments RT ammunition joints (junctions) . calorimeters laminates B-1 aircraft . . bomb calorimeters laser welding bombing equipment drop calorimeters sealing  $\infty$  bombs flame calorimeters explosives soldering heat measurement incendiary ammunition superplastic forming high temperature tests missiles welding temperature measuring instruments nuclear weapons bondlines projectiles USE bonded joints  $\infty$  bombardment pyrotechnics (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS shaped charges Bondoc meteorite torpedoes celestial bodies LISTED BELOW) warheads . meteorites electron bombardment . . stony meteorites hypervelocity projectiles bombs (pressure gages) . . . achondrites irradiation USE pressure gages meteoritic damage . . . . Bondoc meteorite sputtering bombs (samplers) bone demineralization USE samplers GS demineralizing bomber aircraft Bonanza aircraft . bone demineralization GS attack aircraft C-35 aircraft USF diseases . bomber aircraft . bone demineralization . . A-2 aircraft bond graphs RT biological effects . . A-3 aircraft GS charts ∞ biology . . A-4 aircraft . graphs (charts) bones . . A-5 aircraft . . bond graphs osteoporosis . . A-6 aircraft control systems design physiological effects differential equations . . B-1 aircraft physiology . . B-2 aircraft dynamic models weightlessness . . B-26 aircraft mathematical models . . B-47 aircraft mathematics bone marrow . . B-50 aircraft simulation GS anatomy . . B-52 aircraft systems analysis . musculoskeletal system . . B-57 aircraft systems engineering . . connective tissue . . B-58 aircraft . . . bone marrow bonded joints . . B-66 aircraft RT bones (added March 1993) . . B-70 aircraft cancer UF bondlines F-111 aircraft erythrocytes GS joints (junctions) . . Shackleton bomber hematopoiesis . bonded joints . . Valiant aircraft hematopoietic system adhesive bonding . . Victor MK-1 aircraft leukemias bonding . . Vulcan aircraft leukocytes rocket engine cases RT ∞ aircraft bone mineral content rocket linings antisubmarine warfare aircraft soldered joints UF **BMC** bombing equipment solid propellant rocket engines GS content F-117A aircraft welded joints . bone mineral content jet aircraft RT bioengineering  $\infty$  military aircraft bonding  $\infty$  biology  $\infty$  military aviation Specifically, a system of connections biometrics tanker aircraft between all metal parts of an aircraft or other bones training aircraft structure forming a continuous electrical unit and calcium carbonates Vampire MK 35 aircraft preventing jumping or arching of static electricity. calcium phosphates Glueing or cementing together for structural collagens bombing equipment strength. minerals onboard equipment GS bonding osteoporosis . aircraft equipment . adhesive bonding . . bombing equipment . agglutination bones B-1 aircraft . ceramic bonding GS anatomy bomber aircraft . explosive welding . musculoskeletal system bombs (ordnance) . inertia bonding . . bones  $\infty \ \ \text{equipment}$ . metal bonding . . . femur fire control . . metal-metal bonding . . . pelvis . reaction bonding . . . scapula . resin bonding . . . skull  $\infty$  bombs adhesion . . . . cranium (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS SN . . . . . intracranial cavity adhesion tests beam leads . . . . mastoids LISTED BELOW) RT bombs (ordnance) bindina . . . spine

bonded joints

chemical bonds

cementation

precision guided projectiles

pressure gages

samplers

. . . . vertebrae

. . . sternum

. . . tibia

# Bonne projection

. . . ulna . rocket engines Portions of the flights may be ballistic, out of the arthritis . . booster rocket engines atmosphere. bone demineralization . AJ-10 engine GS aliders . boostglide vehicles bone marrow . . . Algol engine bone mineral content . . X-20 aircraft . . . apogee boost motors calcification . . . H-1 engine reentry vehicles cartilage . . . LR-87-AJ-5 engine . boostglide vehicles . . X-20 aircraft chin . . . M-1 engine connective tissue ... M-55 engine aerospace planes . . . MA-2 engine  $\infty \ \, \text{aircraft}$ exoskeletons joints (anatomy) ... MA-3 engine Astro vehicle . . . MA-5 engine lamella gliding hypersonic aircraft osteoporosis . . . Nike booster rocket engines spinal cord ... P-1 engine hypersonic gliders ... rocket engine 9KS-11000 lifting reentry vehicles splints ... Space Shuttle Boosters manned spacecraft Bonne projection . . . . Advanced Solid Rocket Motor recoverable spacecraft DEF A type of conical map projection in which (STS) rocket planes meridians are plotted as curves and the parallels . . . X-405 engine ∞ vehicles are spaced along them at true distances. RT air breathing boosters mapping boots (footwear) Blue Goose missile GS clothing maps  $\infty$  boosters ∞ projection boots (footwear) burnout RT shoes ducted rocket engines Boolean algebra expendable stages (spacecraft) Boral The study of the manipulation of symbols F-1 rocket engine representing operations according to the rules of GS composite materials hybrid propellant rocket engines Boral logic. Boolean algebra corresponds to an algebra internal combustion engines composite structures using only the numbers 0 and 1, therefore can be launch vehicles . laminates used in programming digital computers which liftoff (launching) operate on the binary principle. . Boral liquid propellant rocket engines aluminum GS mathematical logic Mace missiles boron carbides . lattices (mathematics) nuclear engine for rocket vehicles . . Boolean algebra radiation shielding nuclear rocket engines . . . Boolean functions oxygen-hydrocarbon rocket engines boranes RT algebra recoverable spacecraft boron compounds  $\infty \ \ \text{conjunction}$ solid propellant rocket engines . boron hydrides instruction sets (computers) spinning solid upper stage . . boranes stage separation . . . carborane set theory sustainer rocket engines . . . hydrazine borane switching theory turborocket engines . . . pentaboranes transistor logic TX-354 engine hydrogen compounds ∞ unions . hydrides . . boron hydrides **Boolean functions** ∞ booster rockets . . . boranes GS functions (mathematics) (USE OF A MORE SPECIFIC TERM IS SN . . . . carborane . Boolean functions RECOMMENDED—CONSULT THE TERMS . . . . hydrazine borane LISTED BELOW) mathematical logic RT launch vehicles . . . pentaboranes . lattices (mathematics) RT borohydrides . . Boolean algebra . . . Boolean functions ∞ boosters borates (USE OF A MORE SPECIFIC TERM IS boron compounds GS  $\infty$  boom RECOMMENDED—CONSULT THE TERMS . borates (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS LISTED BELOW) SN air breathing boosters . . lithium borates LISTED BELOW) RT amplifiers boric acids RT booms (equipment) apogee boost motors  $\infty$  oxygen compounds sonic booms booster rocket engines Borazon (trademark) tail assemblies boosters (explosives) USE boron nitrides launch vehicles booms (equipment) Scout project borders positioning devices (machinery) Space Shuttle Boosters RT boundaries booms (equipment) Titan project margins  $RT \infty$  boom rims cranes boosters (explosives) boost Bordoni peaks explosive devices elastic deformation RT USE acceleration (physics) . initiators (explosives) plastic deformation . boosters (explosives) resonant frequencies booster recovery igniters expendable stages (spacecraft) stress relaxation RT . initiators (explosives) recoverable launch vehicles . . boosters (explosives) boredom ∞ recovery  $RT \infty \ boosters$ detachment recovery parachutes exploding wires human behavior spacecraft recovery human reactions booster rocket engines boostglide vehicles lethargy

Vehicles designed to glide in the

atmosphere following a rocket-powered phase.

monotony

psychological effects

GS

rocket boosters

engines

psychology . . boring machines boron chlorides space flight stress drills GS boron compounds  $\infty$  machinery . boron chlorides boreholes halogen compounds DEF Holes made by drilling into the ground to Born approximation . chlorine compounds study stratification, to search for or to obtain Born-Mayer equation . . chlorides analysis (mathematics) natural resources, or to release underground GS ... boron chlorides . numerical analysis pressures. . halides . . approximation RT cavities . . chlorides clays . . . Born approximation . . . boron chlorides drilling RT ∞ equations excavation quantum mechanics boron compounds exploration scattering cross sections GS boron compounds geology borates Born-Infeld theory gravels . . lithium borates electrodynamics RT  $\infty$  holes . boric acids electrostatics minerals . borides pits (excavations) Maxwell equation . . chromium borides nonlinear equations rocks . . titanium borides  $\infty$  theories shales . borohydrides soils Born-Mayer equation . . aluminum borohydrides USE Born approximation . . beryllium borohydrides Borel sets . boron carbides GS analysis (mathematics) Born-Oppenheimer approximation . boron chlorides . real variables analysis (mathematics) . boron fluorides . . measure and integration . numerical analysis . boron hydrides . . . Borel sets . . approximation . . aluminum borohydrides mathematical logic . . . Born-Oppenheimer . . beryllium borohydrides . set theory approximation . . boranes . . Borel sets RT Franck-Condon principle . . . carborane RT probability theory . . . hvdrazine borane borohydrides bores . . . pentaboranes boron compounds USE cavities . boron nitrides . borohydrides . boron oxides . . aluminum borohydrides borescopes . boron phosphides . . beryllium borohydrides USE endoscopes . diborane hydrogen compounds . organic boron compounds boresight error . hydrides . tourmaline . . borohydrides DFF Linear displacement between two  $RT \infty$  chemical compounds parallel lines of sight. . . . aluminum borohydrides Group 3A compounds GS errors . . . beryllium borohydrides high energy fuels . position errors boranes RT metal fuels . . boresight error boron hydrides metal propellants air navigation boron boresights chemical elements boron fibers directional antennas . metalloids DEF Fibers produced by vapor deposition displacement . . boron methods; used in various composite materials to displacement measurement . . . boron isotopes impart a balance of strength and stiffness. error analysis . . . . boron 10 GS fibers instrument errors boron reinforced materials . reinforcing fibers line of sight communication Borsic (tradename) . . boron fibers navigation instruments aluminum boron composites optical tracking RT boron 10 Borsic (tradename) range errors GS chemical elements carbon fibers . metalloids boresights composite materials . . boron boresight error fiber composites . . . boron isotopes directional antennas fiber orientation . . . . boron 10 optical tracking fiber strength . nuclides  $\infty \ \ \text{filaments}$ boric acids . . isotopes glass fibers GS acids . . . boron isotopes metal matrix composites . boric acids . . . . boron 10 polymer matrix composites boron compounds reinforced plastics boron alloys boric acids RT GS alloys borates boron fluorides . boron alloys UF boron trifluoride RT borides metalloids GS boron compounds boron compounds boron carbides boron fluorides . borides GS boron compounds halogen compounds . . chromium borides . fluorine compounds . . titanium borides . boron carbides carbon compounds . . fluorides RT intermetallics . carbides . . . boron fluorides boring machines . boron carbides . halides GS tools Boral . . fluorides

ceramic fibers

. machine tools

... boron fluorides

# boron hydrides

boron hydrides . resin matrix composites . . bosons boron compounds . . boron-epoxy composites . . . alpha particles . boron hydrides aircraft structures . . . Higgs bosons . . aluminum borohydrides  $\infty$  chemical compounds . . beryllium borohydrides composite structures . . . . eta-mesons . . boranes epoxy resins . . . . hyperons . . . carborane fiber composites . . . . . xi hyperons . . . hydrazine borane laminates . . . . kaons . . . pentaboranes plastic aircraft structures . . . . meson resonance hydrogen compounds spacecraft components . . . . . X mesons . hydrides superhybrid materials . . . . muons . . boron hydrides . . . . omega-mesons borosilicate glass . . . aluminum borohydrides . . . . pions Low expansion heat resistant glass. . . beryllium borohydrides . . . . vector mesons Used for Pyrex (trademark). . . . boranes . . . . . rho-mesons Pyrex (trademark) . . . . carborane . . . . . sigma-mesons GS glass . . . . hydrazine borane . . . photons . borosilicate glass . . . . pentaboranes . . . xi hyperons borohydrides . nuclear particles honeycomb mirrors . . bosons boron isotopes silicon dioxide . . . alpha particles chemical elements GS . . . Higgs bosons Borsic (tradename) . metalloids . . . mesons Trademark of United Aircraft Products, . . boron . . . . eta-mesons Inc. for its boron aluminum composite materials. . . . boron isotopes . . . . hyperons composite materials . . . . boron 10 . . . . xi hyperons . metal matrix composites . nuclides . . . . kaons . . Borsic (tradename) . . isotopes . . . . meson resonance aluminum ... boron isotopes . . . . . X mesons boron . . . . boron 10 . . . . muons boron fibers . . . . omega-mesons fiber composites boron nitrides . . . . pions Borazon (trademark) materials . . . . vector mesons metal fibers GS boron compounds . . . . . rho-mesons . boron nitrides metals . . . . . sigma-mesons nitrogen compounds . . . photons Bose geometry . nitrides . . . xi hyperons GS geometry . . boron nitrides Bose geometry Bose-Einstein condensates equations of state charged particles boron oxides boron compounds Fermi-Dirac statistics GS Bose-Chaudhuri-Hocquenghem codes . boron oxides quantum statistics BCH codes chalcogenides standard model (particle physics) string theory . oxides Bose-Einstein condensates supersymmetry . . boron oxides (added February 1996) condensates boron phosphides Bose-Einstein condensates GS boron compounds botany RT bosons . boron phosphides GS botany condensed matter physics phosphorus compounds . geobotany ideal gas . phosphides agriculture RT relativistic effects . . boron phosphides alfalfa superfluidity barley boron reinforced materials biogeochemistry Bose-Einstein statistics composite materials  $\infty$  biology USE quantum statistics . boron reinforced materials blight . . aluminum boron composites Bosnia brown wave effect . . boron-epoxy composites USE Bosnia and Herzegovina brush (botany) RT boron chaparral ceramic matrix composites Bosnia and Herzegovina citrus trees epoxy resins (added June 1996) corn fiber composites UF Bosnia farm crops fibers Herzegovina fruits materials GS nations green wave effect plastics . Bosnia and Herzegovina habitats reinforced plastics RT Croatia reinforcing fibers Europe leguminous plants Serbska Republic oats boron trifluoride Yugoslavia plants (botany) boron fluorides  $\infty \ \, \text{science}$ boson fields boron-epoxy composites silviculture field theory (physics) composite materials sugar beets  $\infty$  fields . boron reinforced materials sugar cane mesons . . boron-epoxy composites tomatoes . polymer matrix composites bosons vegetation growth . . epoxy matrix composites GS particles vineyards ... boron-epoxy composites

. elementary particles

∞ zoology

Botswana

GS nations

Botswana

RT Africa

Republic of South Africa

bottles

RT∞ containers flasks glassware tanks (containers)

**Bouquer law** 

A relationship describing the rate of decrease of flux density of a plane-parallel beam of monochromatic radiation as it penetrates a medium which both scatters and absorbs at that wavelength. Used for Lambert law.

Lambert law UF absorptivity Beer law

electromagnetic absorption

thermoplasticity

boules

GS crystals boules single crystals RT

boundaries

UF peripheries

GS boundaries

. core-mantle boundary fluid boundaries

. . gas-solid interfaces

. . jet boundaries

. . liquid-liquid interfaces

. . liquid-solid interfaces liquid-vapor interfaces

. free boundaries

. grain boundaries

RT airspace

borders

boundary conditions circumferences contour sensors delineation fences (barriers) interfaces

regions

boundary conditions (added July 1990)

GS conditions

. boundary conditions

RT boundaries

boundary layers

boundary value problems vortex lattice method

boundary detection (imagery)

edge detection

boundary element method

Technique for solving two- and three-dimensional boundary value problems in thermodynamics, mechanics, etc.

GS stress analysis

. boundary element method

RT apertures

boundary integral method

Technique related to the boundary element method, and used for laminar and turbulent flow problems.

GS analysis (mathematics)

. numerical analysis

. . boundary integral method

procedures

. . boundary integral method

boundary value problems ∞ methodology

GS

RT

boundary layer combustion

combustion . boundary layer combustion

boundary layers combustible flow convective heat transfer diffusion flames

flame propagation laminar boundary layer

reacting flow

boundary layer control

laminar flow control

GS boundary layer control

. porous boundary layer control

aerodynamics airfoil fences ∞ bleeding

blowing

boundary layers

buffeting

circulation control airfoils

∞ control

control surfaces drag devices fluid amplifiers flutter

jet control leading edge slats lift augmentation lift devices riblets

spoilers tangential blowing turbulence

upper surface blown flaps

vacuum vortex generators wing slots X-21 aircraft

boundary layer equations

flow equations

. boundary layer equations

. . Blasius equation

RT boundary layers differential equations

∞ equations flow theory Reynolds averaging

boundary layer flow

fluid flow

. viscous flow

. . boundary layer flow

. . . reattached flow . . . secondary flow

. . . separated flow . . . . boundary layer separation

air currents

atmospheric boundary layer backward facing steps Blasius equation boundary layer thickness convective heat transfer flow distribution

forward facing steps Lighthill gas model Magnus effect recirculative fluid flow Reynolds number stagnation flow

stagnation point

Tollmien-Schlichting waves

wall flow

boundary layer noise

USE

aerodynamic noise boundary layers

boundary layer plasmas

Plasmas resulting from the frictional heat of hypersonic spacecraft entering the Earth's atmosphere.

GS particles

. charged particles

. . energetic particles

. . . plasmas (physics)

.... boundary layer plasmas

. corpuscular radiation . energetic particles

. . . plasmas (physics)

. . . . boundary layer plasmas

aerodynamic heating aerothermodynamics boundary layers

hypersonic reentry plasma physics

plasma sheaths

boundary layer separation

breakaway flow separation

laminar boundary layer separation

fluid flow

. viscous flow

. . boundary layer flow

. . . separated flow

. . . . boundary layer separation

aerodynamic stalling

airspeed angle of attack boundary layers Crocco-Lee theory

∞ diffusers

Falkner-Skan equation

flow distribution

injection

Kutta-Joukowski condition

lift drag ratio reattached flow recirculative fluid flow reversed flow

rotating stalls ∞ separation stagnation flow

stalling sweep angle vortex generators

zero lift boundary layer stability

dynamic characteristics

. dynamic stability

. . motion stability . . . flow stability

. . . boundary layer stability

. flow characteristics

. . flow stability

. . . boundary layer stability stability

. dynamic stability

. . motion stability

. . . flow stability . . . . boundary layer stability

aerodynamic stability backwash boundary layers Goertler instability

Reynolds number

### boundary layer thickness

(added September 1995)

(LIMITED TO FLUID DYNAMICS, DO NOT USE FOR PLANETARY OR CORE MANTLE BOUNDARIES)

GS thickness

### . boundary layer thickness

RT boundary layer flow flow distribution pressure gradients surface layers transition flow

# boundary layer transition

air currents

boundary layers Ekman laver

Goertler instability Knudsen flow

laminar boundary layer

laminar flow

molecular flow

Reynolds number

three dimensional boundary laver

Tollmien-Schlichting waves

 $\infty$  transition

transition flow

∞ transition layers

transition points

turbulence

turbulent boundary layer

turbulent flow

### boundary layers

boundary layer noise

#### boundary layers GS

- . atmospheric boundary layer
- . compressible boundary layer
- . hypersonic boundary layer
- . incompressible boundary layer
- . laminar boundary layer
- . planetary boundary layer
- . supersonic boundary layers
- . thermal boundary layer
- . three dimensional boundary layer
- . turbulent boundary layer
  - . two dimensional boundary layer

asthenosphere

boundary conditions

boundary layer combustion

boundary laver control

boundary layer equations

boundary layer plasmas

boundary layer separation

boundary layer stability boundary layer transition

core-mantle boundary

Crocco method

 $\infty \ draft$ 

drag

fluid boundaries

fluid flow

gas-solid interfaces

liquid-liquid interfaces

liquid-solid interfaces

mixing layers (fluids)

panel method (fluid dynamics)

shear lavers surface layers

wall pressure

# boundary lubrication

lubrication

boundary lubrication

RT bearings **lubricants** 

squeeze films

vapor phase lubrication wear resistance

### boundary value problems

Physical problems completely specified by a differential equation in an unknown, valid in a certain region of space, and certain information. (boundary condition) about the unknown, given on the boundaries of that region. The information required to determine the solution depends completely and uniquely on the particular problem. Used for initial value problems and point matching method (mathematics).

UF initial value problems

point matching method (mathematics)

# boundary value problems

- . Cauchy problem
- . Dirichlet problem
- . Neumann problem

Bessel functions

boundary conditions

boundary integral method

counter rotation

Crank-Nicholson method

differential equations finite element method

finite volume method

half planes

half spaces

Hankel functions

ill-posed problems (mathematics)

Lame functions

Mathieu function

minimal surfaces

Monge-Ampere equation observability (systems)

∞ problems

Sobolev space

three dimensional bodies

# **Bourdon tubes**

GS transducers

. pressure sensors

. . Bourdon tubes

pressure gages

pressure measurement

tubes

# **Boussinesq approximation**

The assumption (frequently used in the theory of convection) that the fluid is incompressible except insofar as the thermal expansion produces a buoyancy.

RT convection

heat transfer

incompressible fluids perturbation theory

thermal expansion

bow shock waves USE shock waves

### how waves

Shock waves in front of a body, such as an airfoil, or apparently attached to the forward tip of the body.

RT hypersonic wakes Mach cones

> magnetosheath shock waves surface waves

### $\infty$ bows

RT

(USE OF A MORE SPECIFIC TERM IS SN

RECOMMENDED—CONSULT THE TERMS

LISTED BELOW) bendina

> camber forebodies

heaving

### box beams

GS structural members

. beams (supports)

. . box beams

RT∞ boxes

cantilever beams

girders

rectangular beams

# $\infty \ \text{boxes}$

SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS

LISTED BELOW) RT

box beams boxes (containers)

# boxes (containers)

RT∞ boxes

 $\infty$  buckets

cases (containers)

packages

**BPSK** 

USE binary phase shift keying

# brackets

anchors (fasteners) RT

> fasteners fixtures holders

mounting

bradycardia GS rates (per time)

. heart rate

. . bradycardia

signs and symptoms

. bradycardia RT heart diseases

# Bragg angle

The angle between the incident beam DEF and the lattice planes considered.

GS geometry

. Euclidean geometry

. . angles (geometry)

. . Bragg angle

Bragg gratings

Bragg reflectors

crystallography **DBR** lasers

diffraction

diffraction paths electron diffraction

isotropy

 $\infty$  orientation ∞ physical properties

radiography

# Bragg cells

(added September 1988) modulators GS

. Bragg cells

acousto-optics

amplitude modulation crystal optics light beams light modulation

phase demodulators phase modulation

128

ultrasonic light modulation encephalitis brakes (forming or bending) head (anatomy) RT∞ brakes Bragg curve information processing (biology) metal working A curve showing the average specific intracranial pressure braking ionization of an ionizing particle of a particular kind neuroglia as a function of its kinetic energy, velocity, or brakes (for arresting motion) neurology deceleration residual range. pituitary gland biological effects eddy currents psychiatry retarders (devices) nuclear reactions psychology particle interactions retarding rheoencephalography radiation effects thrust reversal spinal cord branching (mathematics) **Bragg gratings** brain circulation The appearance of a new solution of a (added August 1997) GS circulation mathematical equation at some critical value of a gratings (spectra) . blood circulation parameter, as a result of which there may be more . Bragg gratings . . brain circulation RT than one solution (different branches) of the Bragg angle brain equation. Used for bifurcation (mathematics) Bragg reflectors rheoencephalography bifurcation (mathematics) interferometers branching (mathematics) GS optical fibers brain damage . period doubling optical filters GS injuries RT chaos Bragg mirrors functions (mathematics) . brain damage USE Bragg reflectors  $\infty$  logic mathematical logic **Bragg reflectors** set theory brain stem (added August 1997) switching theory GS anatomy Bragg mirrors . nervous system GS reflectors branching (physics) . . central nervous system . Bragg reflectors bifurcation (biology) . . . brain RT Bragg angle  $\infty$  physics . . . . brain stem Bragg gratings brasses DBR lasers GS alloys gallium arsenides (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS . copper alloys SN mirrors . . brasses semiconductor lasers LISTED BELOW) RT brakes (for arresting motion) Bravais crystals braided composites brakes (forming or bending) GS crystals (added November 1992) . Bravais crystals GS composite materials brakes (for arresting motion) crystal growth . fiber composites decelerators crystal lattices . . braided composites dragulators crystal structure carbon fiber reinforced plastics brakes (for arresting motion) packing density epoxy matrix composites . aerodynamic brakes single crystals graphite-epoxy composites . . ballutes reinforcing fibers Brayton cycle . . drag chutes three dimensional composites A thermodynamic cycle consisting of two . . split flaps woven composites constant-pressure processes interspersed with . . wing flaps . . . leading edge flaps two constant-antropy cycles. Named after George braille B. Brayton, American engineer. . . . leading edge slats DFF A system of writing that uses characters . . . trailing edge flaps GS cycles made up of raised dots. It was named after Louis . thermodynamic cycles . . . vortex flaps Braille. ... Brayton cycle . aircraft brakes RT blindness gas turbine engines RT . . split flaps embossing gas turbines . . wing flaps Rankine cycle . . . leading edge flaps brain solar dynamic power systems GS anatomy . . . leading edge slats . nervous system . . . trailing edge flaps Brazil . . central nervous system . . . vortex flaps GS nations . . . brain . wheel brakes . Brazil . . . . brain stem abort apparatus RT Amazon region (South America) . . . . cerebellum antiskid devices Brazilian space program . . . . cerebral ventricles ∞ arresters South America arresting gear . . . . cerebrum . . . . . cerebral cortex Brazilian space program . . . . . occipital lobes braking The space program of Brazil which is cylindrical chambers . . . . diencephalon under the jurisdiction of the Instituto de Pesquisas . . . . . hypothalamus drag devices Espaciais (INPE). flaps (control surfaces) . . . . . pineal gland programs . . . . . thalamus landing gear . space programs . . . . hippocampus nose wheels . . Brazilian space program parachutes angiography RT Brazil brain circulation retarders (devices) brain damage thrust reversal brazing cerebrospinal fluid towed bodies GS welding echoencephalography vehicle wheels . fusion welding

wheels

electroencephalography

. . gas welding

. . . brazing hyperpnea . short takeoff aircraft . . . . low temperature brazing oxygen breathing . . Breguet 940 aircraft  $RT \, \infty \ aircraft$ RT fluxes respiration respiratory reflexes ∞ joining Breguet 941 aircraft metal bonding breathing apparatus Breguet aircraft sealing . Breguet 941 aircraft breathing apparatus soldering . oxygen masks iet aircraft ultrasonic soldering . turboprop aircraft . underwater breathing apparatus . . Brequet 941 aircraft Brazzaville RT ∞ breathing USE Congo (Brazzaville) monoplanes ∞ equipment Breguet 941 aircraft fire fighting breadboard models passenger aircraft life support systems Assemblies of preliminary circuits or . Breguet 941 aircraft oxygen supply equipment parts used to prove the feasibility of a device, transport aircraft portable life support systems circuit, system, or principle without regard to the . cargo aircraft respirators final configuration or packaging of the parts. Breguet 941 aircraft GS models breathing vibration V/STOL aircraft . breadboard models vibration GS . short takeoff aircraft RT circuits . structural vibration . . Brequet 941 aircraft printed circuits . . breathing vibration  $RT \infty$  aircraft product development RT bending vibration **Breguet aircraft** prototypes ∞ breathing Breguet aircraft exhausting breakaway . Brequet 940 aircraft missile vibration USE boundary layer separation . Breguet 941 aircraft venting . Breguet 1150 aircraft ∞ breakdown breccia  $RT \, \infty \ aircraft$ (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT TERMS SN GS rocks Jaguar aircraft . breccia LISTED BELOW) bremsstrahlung classifications ataxite Electromagnetic radiation produced by electrical faults igneous rocks the rapid change in the velocity of an electron or regolith failure another fast, charged particle as it approaches an sedimentary rocks gaps atomic nucleus and is deflected by it. In German metal working soils it means braking radiation. system failures breeder reactors GS electromagnetic radiation . bremsstrahlung breakers (electric) GS nuclear reactors USE circuit breakers RT Cerenkov radiation . breeder reactors diffraction radiation . . Experimental Breeder Reactor 1 breaking electron photon cascades . . Experimental Breeder Reactor 2 destruction RT . . light water breeder reactors electron radiation fragmentation far ultraviolet radiation . liquid metal fast breeder reactors ∞ separation gamma ray bursts Enrico Fermi atomic power plant gamma rays nuclear power reactors breakup (spacecraft) nuclear radiation USE spacecraft breakup breeding (reproduction) relativistic plasmas fertility synchrotron radiation breakwaters genetics x rays Offshore structures (such as moles, heredity walls, or jetties) that by breaking the force of Brewster angle reproduction (biology) waves, protect harbors, anchorages, beaches, or GS geometry shore areas. Used for jetties and sea walls. Breguet 1150 aircraft . Euclidean geometry ietties Atlantic aircraft . . angles (geometry) sea walls antisubmarine warfare aircraft . . Brewster angle RT concrete structures . Breguet 1150 aircraft polarization characteristics harbors attack aircraft reflection littoral drift . Breguet 1150 aircraft refractivity littoral transport Breguet aircraft oceanography bricks . Breguet 1150 aircraft structural design Solid masonry units of clay or shale, iet aircraft ∞ structures usually formed into a rectangular prism while . turboprop aircraft underwater engineering plastic and burned or fired in a kiln. Bricks are . . Brequet 1150 aircraft underwater structures ceramic products. monoplanes water waves GS masonry Breguet 1150 aircraft ∞ waves . bricks reconnaissance aircraft RT cements . Breguet 1150 aircraft  $\infty$  breathing ceramics RT ∞ aircraft (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS SN clays Breguet 940 aircraft  $\infty$  construction materials LISTED BELOW) mortars (material) RT argon-oxygen atmospheres Breguet aircraft breathing apparatus . Breguet 940 aircraft  $\infty$  bridges monoplanes breathing vibration (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS SN emergency breathing techniques . Breguet 940 aircraft

research vehicles

. research aircraft

V/STOL aircraft

Breguet 940 aircraft

LISTED BELOW)

electric bridges

bridges (landforms)

bridges (structures)

RT

expiration

hypercapnia

helium-oxygen atmospheres

high altitude breathing

liquid bridges black body radiation . . . . . turbofan engines .... Bristol-Siddeley BS 53 brightness bridges (landforms) brightness temperature engine landforms ∞ distribution . internal combustion engines . bridges (landforms) . . gas turbine engines galactic radiation  $RT \infty$  bridges . . . jet engines photography geology . . . . turbojet engines radiant flux density  $\infty$  ridges . . . . turbofan engines radio astronomy solar granulation .... Bristol-Siddeley BS 53 bridges (structures) stellar luminosity engine RT∞ bridges . turbine engines construction brightness temperature . . gas turbine engines construction industry In astrophysics, the temperature of a . . . jet engines crossings black body radiating the same amount of energy . . . . turbojet engines crossovers per unit area at the wavelengths under . . . . turbofan engines highways consideration as the observed body. The Bristol-Siddeley BS 53 ramps (structures) temperature of a nonblack body determined by engine ∞ structures measurement with an optical pyrometer. P-1127 aircraft RT towers GS temperature . brightness temperature Bristol-Siddeley Olympus 593 engine Bridgman method astrophysics engines RT crystal growth black body radiation . air breathing engines  $\infty$  methodology brightness distribution . . gas turbine engines single crystals . . . jet engines limb brightening meteorology . . . . turbojet engines brightness ..... Bristol-Siddeley Olympus 593 photography DEF The attribute of visual perception in accordance with which an area appears to emit radio astronomy engine temperature measurement . internal combustion engines more or less light. . . gas turbine engines electromagnetic properties Brillouin effect . optical properties . . . jet engines  $\text{RT} \infty \ \text{effects}$ . . . . turbojet engines . . brightness frequency shift .... Bristol-Siddeley Olympus 593 . . . sky brightness light scattering engine bistatic reflectivity monochromatic radiation . turbine engines brightness distribution . . gas turbine engines color Brillouin flow . . . jet engines dimming GS electric current . . . . turbojet engines emissivity Brillouin flow . . . . Bristol-Siddeley Olympus 593 flux (rate) beam currents engine glare electron beams human factors engineering electron optics Bristol-Siddeley Viper engine illuminance ∞ flow GS engines illuminating traveling wave tubes . air breathing engines incandescence . . gas turbine engines **Brillouin zones** . . . jet engines light (visible radiation) GS regions . . . turbojet engines limb brightening Brillouin zones .... Bristol-Siddeley Viper engine luminance band structure of solids . internal combustion engines luminescence conduction bands . . gas turbine engines luminosity crystal lattices . . . jet engines luminous intensity Fermi surfaces . . . . turbojet engines luster free electrons . . . . Bristol-Siddeley Viper engine radiance . turbine engines radiant flux density Brillouin-Wigner equation . . gas turbine engines reflectance  $RT \infty$  equations . . . jet engines stellar luminosity . . . . turbojet engines brines visibility .... Bristol-Siddeley Viper engine vision DFF Water saturated or strongly impregnated with common salt. British Aircraft Corp aircraft brightness discrimination coolants USE **BAC** aircraft GS discrimination refrigerants . sensory discrimination salinity **British Columbia** . . brightness discrimination salt baths GS nations  $RT \infty \ illumination$ salt beds . Canada visual perception sea water . . British Columbia brightness distribution briquets British Guinea DEF The statistical distribution based on RT blanks USE Guyana brightness, or the distribution of brightness over pellets the surface of an object. tablets British Honduras GS distribution (property) USE Belize brightness distribution Bristol-Siddeley BS 53 engine electromagnetic properties Pegasus engine brittle materials UF . optical properties engines RTcleavage brightness distribution . air breathing engines cracking (fracturing) statistical distributions . . gas turbine engines embrittlement . brightness distribution . . . jet engines fracture strength

. . . . turbojet engines

RT

astrophysics

granular materials

hardness theoretical physics . halogens impact strength . . bromine bromates . . bromine isotopes ∞ materials halogen compounds porous materials . nuclides . bromine compounds . . isotopes brittle-ductile transition . bromates . . . bromine isotopes ductile-brittle transition RT∞ oxygen compounds bronchi bromides brittleness UF bronchial tubes GS halogen compounds mechanical properties GS GS anatomy . bromine compounds brittleness . respiratory system . . bromides Charpy impact test . . bronchi . . . ammonium bromides cleavage lungs cold hardening . . . cesium bromides trachea . . . chromium bromides crack closure . . . dibromides crack initiation bronchial tubes crack propagation . . . hydrobromic acid . . . hydrobromides USE bronchi cracking (fracturing) . . . magnesium bromides ductile-brittle transition bronzes . . . potassium bromides ductility alloys GS . . . silver bromides embrittlement . copper alloys . . . sodium bromides fractography . . bronzes . . . strontium bromides fracture strength . halides fracturing Brorsen-Metcalf comet . . bromides hardness (added May 1991) . . . ammonium bromides impact strength celestial bodies . . . cesium bromides impact tests . comets . . . chromium bromides notch strength . . Brorsen-Metcalf comet . . . dibromides notch tests RT solar system . . . hydrobromic acid toughness weldability . . . hydrobromides broths . . . magnesium bromides  $RT \infty \ \ food$ broadband . . . potassium bromides nutrition widehand UF . . . silver bromides brown dwarf stars GS bandwidth . . . sodium bromides (added March 1989) . broadband . . . strontium bromides celestial bodies frequencies RT salt beds . broadband . stars bromination . . brown dwarf stars asynchronous transfer mode chemical reactions companion stars GS  $\infty \ \text{bands}$ . halogenation cool stars frequency response . . bromination dwarf stars log periodic antennas protostars narrowband bromine stellar evolution spiral antennas chemical elements GS brown wave effect . halogens broadband amplifiers . . bromine annual variations amplifiers . . . bromine isotopes botany . broadband amplifiers chlorophylls RT bandwidth bromine 82  $\infty$  effects frequencies USE bromine isotopes foliage wideband communication leaves bromine 87 broadcasting USE bromine isotopes **Brownian movements** radio broadcasting colloids GS telecommunication bromine compounds dispersions . broadcasting halogen compounds Einstein equations RT communication networks . bromine compounds emulsions direct broadcast satellites . . bromates Fokker-Planck equation radio communication . . bromides  $\infty$  motion . . . ammonium bromides radio equipment  $\infty$  suspensions radio signals . . . cesium bromides radio transmission . . . chromium bromides Bruceton test Symphonie satellites . . . dibromides statistical tests USE . . . hydrobromic acid transmission Voice of America . . . hydrobromides brucite . . . magnesium bromides GS chalcogenides broken symmetry . . . potassium bromides . oxides Phenomena where a loss of symmetry is . . . silver bromides . . brucite present such as in piezoelectricity. Used for . . . sodium bromides magnesium compounds symmetry breaking. . . . strontium bromides . brucite symmetry breaking UF  $RT \infty$  chemical compounds minerals symmetry halocarbons . brucite . broken symmetry polybrominated biphenyls RT grand unified theory Bruderheim meteorite Higgs bosons bromine isotopes celestial bodies mathematical models UF bromine 82 . meteorites

bromine 87

chemical elements

GS

. . stony meteorites

. . . chondrites

supergravity

supersymmetry

#### Bruderheim meteorite strontium oxides bucket brigade devices superconducting films electronic equipment Brunei . solid state devices GS nations BSX . . semiconductor devices . Brunei GS explosives . . . charge transfer devices RT Asia . BSX . . . . bucket brigade devices nitromethane charge coupled devices Brunt-Vaisala frequency semiconductors (materials) DEF The frequency at which an air parcel will bubble chambers oscillate when subjected to an infinitesimal Devices used for the detection and study DEF ∞ buckets peturbation in a stably stratified atmosphere. of elementary particles and nuclear reactions. (USE OF A MORE SPECIFIC TERM IS SN constraints Charged particles from an accelerator are RECOMMENDED—CONSULT THE TERMS . meteorological parameters introduced into a superheated liquid, each forming LISTED BELOW) RT boxes (containers) . . Brunt-Vaisala frequency a trail of bubbles along its path. $\infty \ \ \text{capsules}$ frequencies ionization chambers drums (containers) . Brunt-Vaisala frequency . bubble chambers trays air currents $RT \infty$ chambers turbomachine blades air flow cloud chambers air masses elementary particles buckeve aircraft atmospheric circulation particle trajectories USE T-2 aircraft atmospheric physics radiation counters atmospheric stratification spark chambers buckling oscillations DEF An unstable state of equilibrium of a bubble memory devices thin-walled body stemming from compressive brush (botany) GS computer components stresses in walls. The lateral deflection of a scrubs (botany) UF . computer storage devices thin-walled body resulting from such instability. GS plants (botany) . . bubble memory devices brush (botany) buckling magnetic storage . creep buckling . chaparral . bubble memory devices . elastic buckling botany binary data . Euler buckling defoliation core storage . thermal buckling Earth resources data processing RT bending quayule data recorders collapse herbicides data recording compression loads data storage brush seals deformation magnetic cores (added July 1991) distortion magnetic domains seals (stoppers) Donnell equations magnetic recording . brush seals failure magnetic switching RT leakage failure modes bubble technique flange wrinkling brushes GS technologies heaving GS brushes . bubble technique $\infty$ ridges . brushes (electrical contacts) shell stability data recorders electric contacts electronic equipment stresses electric generators structural failure flight instruments electric motors structural strain $\infty$ instruments magnetic domains temperature inversions brushes (electrical contacts) torsion onboard equipment Conductive metal or carbon blocks used recording instruments twisting to make sliding electrical contact with a moving warpage semiconductor devices part as in an electric motor. wrinkling solid state devices GS brushes spacecraft instruments . brushes (electrical contacts) buckminsterfullerene electric contacts (added August 1991) bubbles electric generators A form of solid carbon consisting of a DEF Internal voids or trapped globules of air electric motors or other gas. somewhat disordered hexagonal close packing of aeration soccer-ball-shaped C60 molecules. The mole-RT **Bryophytes** cules are extremely hard pseudospherical moleliverworts cavitation flow cules bonded by weak Van der Waals forces. Coanda effect mosses fullerenes effervescence GS GS plants (botany) . Bryophytes foams . buckminsterfullerene metal foams RT carbon **BSCCO** superconductors graphite wakes (added March 1993) molecules Bi-Sr-Ca-Cu-O superconductors **Buccaneer aircraft** polyatomic molecules chalcogenides B-103 aircraft polyhedrons . oxides Blackburn B-103 aircraft . . metal oxides GS attack aircraft budgeting . . . mixed oxides Buccaneer aircraft accounting . . . . BSCCO superconductors Hawker Siddeley aircraft allocations conductors . Buccaneer aircraft appropriations . superconductors (materials) jet aircraft budgets . . high temperature superconductors . Buccaneer aircraft cost analysis . . . BSCCO superconductors monoplanes cost effectiveness bismuth oxides Buccaneer aircraft cost estimates

 $RT \, \infty \ aircraft$ 

Harrier aircraft

calcium oxides

copper oxides

economic factors

estimating

financial management buildings thin walls forecasting DEF Structures erected and framed of **Bullpup missiles** component structural members designed for the grants missiles housing, shelter or support of persons, animals, or GS income . air to surface missiles mission planning property. Used for building structures. . Bullpup missiles planning UF building structures LR-62-RM-2 engine procurement management RT architecture project planning basements Bumblebee project ceilings (architecture) revenue GS missiles chimneys . Bumblebee project  $\infty$  budgets construction programs SN (USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS construction industry . projects floors LISTED BELOW) . . Bumblebee project greenhouses RT budgeting Talos missile hangars Earth radiation budget tartar missile indoor air pollution energy budgets terrier missile inflatable structures engineering management Typhon weapon system missile silos federal budgets museums foreign policy **bumpers** roofs heat budget RT cushions shelters procurement management meteoroid protection solar houses research management meteoroids stairways protectors Starsite program Buffalo aircraft DHC 5 aircraft walls USE bumpy toruses DEF The shapes (doughnuts) of certain bulbs buffer storage plasmas. RT luminaires DEF In computer operations, storage used to fusion reactors plant roots compensate for a difference in rate of flow or time plasma control pressure vessels of occurrence when transferring information from plasma heating syringes one device to another. tokamak devices computer components toroidal plasmas Bulgaria . computer storage devices GS nations . . buffer storage Buna (trademark) Bulgaria RT∞ buffers GS elastomers Black Sea core storage . rubber Europe data storage . . synthetic rubbers bulging . . . Buna (trademark) metal working RT butadiene GS  $\infty$  buffers . bulging styrenes (USE OF A MORE SPECIFIC TERM IS SN deep drawing RECOMMENDED—CONSULT THE TERMS bunching dimpling LISTED BELOW) explosive forming GS bunching buffer storage . electron bunching buffers (chemistry) forging RT queueing theory hot working buffers (chemistry) space charge magnetic forming bases (chemical) RT velocity modulation metal drawing  $\infty \ \ \text{buffers}$ stretch forming bundle drawing chemical equilibrium bulk acoustic wave devices RT ∞ drawing neutralizers Acoustooptic devices utilizing bulk sound metal drawing waves at megahertz frequencies in thin film buffeting transducers. Used for B-A-W devices. bundles The beating of an aerodynamic structure RT ∞ containers B-A-W devices or surfaces by unsteady flow, gusts, etc.; the packages RT∞ devices irregular shaking or oscillation of a vehicle umbilical connectors surface acoustic wave devices component owing to turbulent air or separated transducers wiring flow. bunkers (fuel) bulk modulus RT aerodynamic stability GS tanks (containers) DFF The reciprocal of the coefficient of aircraft stability compressibility. bunkers (fuel) boundary layer control mechanical properties RT fuel systems GS compressibility effects flight characteristics . bulk modulus buoyancy RT compressibility flutter RT acoustic levitation density (mass/volume) oscillating flow aerostatics shaking bulkheads ballast (mass) spacecraft motion Steep or vertical structures supporting density (mass/volume) spacecraft stability natural or artificial embankments. floating Strouhal number GS walls gas density turbulence effects . bulkheads levitation vortex avoidance RT ∞ barriers mechanical properties end plates neutral buoyancy simulation building materials hulls (structures) ∞ physical properties USE construction materials partitions (structures) porosity building structures reinforcement (structures) Rayleigh number USE buildings thick walls voids

ouoys			waste energy utilization		extinguishing
RT	beacons				solid propellant rocket engines
	compasses	Burnett	equations		thrust termination
	floats	(adde	d March 1996)		
00	markers	SN	(These equations are frequently associated	burns (i	njuries)
	navigation aids		with models of hypersonic flow and shock	GS	injuries
	ocean data acquisitions systems	00	waves.)		. burns (injuries)
	occan data acquisitions systems	GS	equations of motion	RT	crash injuries
Buran s	pace shuttle		. kinetic equations		fires
	d August 1989)		hydrodynamic equations		laser damage
GS	manned spacecraft		Burnett equations		lesions
00	. space shuttles		flow equations		
	•		. Burnett equations		radiation injuries
	Buran space shuttle	RT	Boltzmann transport equation	hurnthr	ough (failure)
	reentry vehicles		Chapman–Enskog theory		
	. recoverable spacecraft		computational fluid dynamics	GS	failure
	reusable spacecraft		hypersonic flow		burnthrough (failure)
	space shuttles			RT	ablation
	Buran space shuttle		shock waves		damage
	soft landing spacecraft	burning			melting
	. Buran space shuttle	burning			perforating
	Soviet spacecraft	USE	combustion		
	. Buran space shuttle			burst te	sts
DT		burning		GS	destructive tests
RT	aerospace planes	USE	combustion		. burst tests
	U.S.S.R. space program			RT	containment
	(arganizations)	burning			failure analysis
	(organizations)	DEF	The velocity at which a solid propellant		·
GS	institutions	in a rock	tet is consumed. The symbol is r.		fracture mechanics
	. bureaus (organizations)	GS	rates (per time)		fracture strength
	organizations		. burning rate	$\infty$	materials tests
	. federations	RT	burnout		pressure vessels
	bureaus (organizations)		combustion	_	
RT	programs			bursts	
	projects		combustion control	GS	bursts
	teams		combustion efficiency		. gamma ray bursts
			combustion stability		. radio bursts
	university program		explosives		solar radio bursts
ourettes			flame propagation		type 2 bursts
GS			flammability		type 3 bursts
GG	measuring instruments		fuel consumption		* * * * * * * * * * * * * * * * * * * *
	. burettes		fuel-air ratio		type 4 bursts
RT	glassware		fuels		type 5 bursts
	pipettes			RT∞	disturbances
∞	tubes		pressure dependence		emission
			propellant consumption		explosions
Burger e	equation		propellant grains		fragmentation
GS	analysis (mathematics)		propellants		implosions
	. real variables		smoldering		rupturing
	differential equations		solid propellant combustion		raptaring
	partial differential equations		solid propellant rocket engines	bursts (d	communication)
	Burger equation		solid rocket propellants	USE	packets (communication)
RT	continuum mechanics		velocity coupling	002	paonoto (communication)
			velocity coupling	Burundi	•
$\infty$	equations	burning	time	UF	Ruanda–Urundi
	Navier–Stokes equation	UF		GS	nations
	shock wave propagation		firing time	GS	
		GS	time		. Burundi
Burkina			burning time	RT	Africa
UF	Upper Volta	RT	combustion		Rwanda
GS	nations		combustion efficiency	_	
	. Burkina		firing (igniting)		nductors
RT	Africa		flight optimization	GS	conductors
			flight time		. bus conductors
Burma			rocket engines	RT	electric wire
GS	nations		rocket firing		flat conductors
	. Burma		<u> </u>		power lines
RT	Asia		testing time		power transmission
	rold		thrust	∞	power transmission
ourn–in			windows (intervals)	bushing	ıs
RT	failure			RT	
	failure analysis	burnout		IXI	bearings
	integrated circuits	SN	(LIMITED TO TERMINATION OF		inserts
	•		COMBUSTION IN A ROCKET ENGINE		linings
	quality control		BECAUSE OF EXHAUSTION OF THE		shafts (machine elements)
nurnoro		DEF	PROPELLANT) The termination of combustion in a		spacers
ourners	oftonburning.				
RT	afterburning		engine because of exhaustion of the		s management
	chemical reactors	propellar		USE	industrial management
	combustion chambers	RT	booster rocket engines		
	diffusion welding		burning rate	butadie	ne
	fuel injection		combustion	UF	vinyl ethylene
	furnaces	∞	cut-off	GS	organic compounds
	incinerators		erosive burning		. hydrocarbons
			-		•

# butanes

	aliphatic hydrocarbons dienes
RT	butadiene Buna (trademark) hydrocarbon fuels
	polybutadiene
butanes	
	isobutane
GS	organic compounds
	<ul><li>. hydrocarbons</li><li>. aliphatic hydrocarbons</li></ul>
	alkanes
	butanes
RT	petroleum products
butenes	
UF	butylene
GS	isobutylene organic compounds
	. hydrocarbons
	aliphatic hydrocarbons
	alkenes butenes
butt join GS	ts joints (junctions)
93	. butt joints
RT	lap joints
	metal joints
	riveted joints soldered joints
	welded joints
butterfly	valves
GS	valves
	. butterfly valves
	dampers (valves)
buttes	
GS	landforms . terraces (landforms)
	plateaus
	mesas
	buttes
$\infty \text{ buttons}$	
SN	(USE OF A MORE SPECIFIC TERM IS RECOMMENDED—CONSULT THE TERMS
	LISTED BELOW)
RT	manual control
butylene	
USE	butenes
butylene	
USE	tetrahydrofuran
butyric a	
GS	acids . butyric acid
RT	fermentation
by-prod	urts
RT	materials recovery
	products
	reaction products wastes
bypass i	ratio Ratio of the secondary to the primary
	bws for a turbofan engine.
GS	ratios
RT	. bypass ratio air intakes
IXΙ	engine inlets
	flow geometry
	hypersonic inlets
	inlet airframe configurations inlet flow

inlet nozzles
intake systems
nose inlets
side inlets
supersonic inlets

bypasses

UF shunts
RT diverters
relief valves